



## Mopar Muscle Cars of Austin

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### Random Thoughts & Club Happenings

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A belated merry Christmas and happy new year to everyone! I hope santa brought lots of Mopar toys to each of you. The biggest Mopar related present I got was some time to work on the car. All I need to do now is get the motivation factor going, and I'll be all set!

This month's article was motivated by experience. Have you ever gone into the parts store for a small light bulb (say for a turn indicator, dashboard light, dome light, etc.) and discovered that there are several different bulb numbers that all have the same function, same base design, and will fit and work interchangeably? So what the heck is the reason for the different number on the bulb then? I ran into this (again) in buying a turn signal bulb for my '66 Polara. The left turn signal had a 2057 bulb, the right had an 1157. Which one is right, and why is it right? Could this have anything to do with why I \*never\* have gotten all the segments of the taillamps on the R/T to look the same brightness? Hmmmmm.... and what about those little "wedge" base bulbs that go in the instrument cluster- there are several different numbers for them too. Could that be why the dash doesn't look evenly lighted?

To answer this, I contacted Dan Stern, proprietor of Stern Lighting Inc. (<http://lighting.mbz.org>, [dan@mbz.org](mailto:dan@mbz.org)). I've known Dan for 5 or 6 years now after having contacted him on the internet automotive newsgroups, where he is a frequent poster and avid Chrysler fan. His own vehicles include a '62 Lancer (with an aluminum slant six), 65 Canadian

Valiant, and a 92 Spirit R/T. Dan has a great talent in that if he doesn't have an answer he can generally find one, and his sources tend to be very good (for example, I'm green with envy over the fact that he personally knows Bill Weertman, the Chrysler engineer largely responsible for the slant 6, Hemi, and B/RB powerplants). Since Dan runs his own automotive lighting business, I figured he'd be the perfect person to answer my questions. He graciously provided me with "the mother of all bulb application tables" and granted me permission to reproduce it in our newsletter. Here it is!

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Ratings for dual filaments are listed major/minor (turn signal/parking lamp)

ECE= European spec bulbs

V=volts, A=amps

All ECE bulbs have nickel-plated bases and large contact lugs

rated hours in ECE and non-ECE bulbs are not directly comparable

MSCD is "Mean Spherical Candela", or "candlepower" THIS TELLS HOW BRIGHT THE BULB IS.

**Ba15d (dual contact/dual filament) INDEX BASE (axially offset pins, one direction only):**

<b>Bulb #</b>	<b>V</b>	<b>A</b>	<b>MSCD</b>	<b>hrs</b>	<b>Notes</b>
1016	12.8/14	1.34/0.59	21/6	300/1000	odd
1034	12.8/14	1.8/0.59	32/3	200/5000	OLD
1034NI	12.8/14	1.8/0.59	32/3	200/5000	nickelplate base
1157	12.8/14	2.1/0.59	32/3	1200/5000	
1157NI					nickelplate base
1157LL					long life
1157K (krypton)				2000/10,000	S.A. 1157LL
1157NA	12.8/14	2.1/0.59	24/2.2	1200/5000	see-thru amber
2057	12.8/14	2.1/0.48	32/2	1200/5000	
2057NA	12.8/14	2.1/0.48	24/1.5	1200/5000	see-thru amber
2357	12.8/14	2.23/0.59	40/3	400/5000	
2357NA	12.8/14	2.23/0.59	30/2.2	400/5000	c-thru amber
2397	12.8/14	2.23/0.48	40/2	400/2000	
3496	??./??./??./??.		43/3	??/???	krypton filled
7528	12/12	1.75/0.42	35/3	150/1500	ECE P21/5W
7225	12/12	1.75/0.33	35/1.2	150/1500	ECE P21/4W BAz15d
1297K (krypton)			50/3		experimental/new
1297NAK (krypton/amber)			??/?		Coming soon?

**Ba15d (dual contact/dual filament) NON-INDEX BASE (pins in same plane, both filaments ground to shell):**

Bulb #	V	A	MSCD	hrs	Notes
1176	12.8/14	1.34/0.59	21/6	200/1000	

**Ba15s (single contact/single filament):**

Bulb #	V	A	MSCD	hrs	Notes
1295	12.5	3	50	300	
1295NA	12.5	3	37.5	300	c-thru amber
93	12.8	1.04	15	700	
1141	12.8	1.44	21	1000	
1073	12.8	1.8	32	200	
1073NI					nickelplate base
1156	12.8	2.1	32	1200	
1156NI					nickelplate base
1156NA	12.8	2.1	24	1200	c-thru amber
2396	12.8	2.23	40	400	
199	12.8	2.25	32	1200	
7506	12	1.75	37	150	ECE P21W
7527	12	1.5	20	75	
7533	12	1.25	17	75	
7582	12	2.08	32	75	

**Ba15d (dual contact/single filament): NON-INDEX BASE (pins in same plane) shell not grounded (power and ground through base pins):**

Bulb #	V	A	MSCD	hrs	Notes
94	12.8	1.04		15	700
1142	12.8	1.44		21	1000
1076	12.8	1.8		32	200

**W3.1x9.5 (plastic wedge, quad contact, dual filament):**

**Same bulbs as 1xxx and 2xxx series, with a different base.**

3057	S.P.A.	2057
3057K	draw/output per 2057	Life per 1157K/1157LL
3057NA	S.P.A.	2057NA
3057NA/K	draw/output per 2057NA	Life per 1157K/1157LL
3157	S.P.A.	1157
3157K	S.P.A.	1157K/1157LL
3157NA	S.P.A.	1157NA
3157NA/K	draw/output per 1157NA	Life per 1157K/1157LL
3357	S.P.A.	2357
3357NA	S.P.A.	2357NA
3357NA/K	draw/output per 2357NA	Life 800/10,000
3457	S.P.A.	3357 except high-heat A model base for constant-on apps
3457K	S.P.A.	3357K high-heat base
3457NA	S.P.A.	3357NA high-heat base
3457NA/K	S.P.A.	3357NA/K high-heat base
3454K	S.P.A.	1295
3454NA/K	S.P.A.	1295NA

**Mini Bayonet (single contact/single filament, sidemarker, instrument cluster)**

<b>Bulb #</b>	<b>V</b>	<b>A</b>	<b>MSCD</b>	<b>hrs</b>	<b>Notes</b>
6253	12	0.5	4.2	200	
57	14	0.24	2	500	
53	14.4	0.12	1	1000	smaller globe than 57
1895	14	0.27	2	2000	use instead of 57
293	14	0.33	2	5000	
1816	13	0.33	3	1000	
3893	12	0.33	2.8	300	ECE T4W, nickelplate base, small globe, my favorite repl. for 53, 57, 1895, 293

**Mini Wedge (dual contact/single filament, sidemarker, instrument cluster):**

<b>Bulb #</b>	<b>V</b>	<b>A</b>	<b>MSCD</b>	<b>hrs</b>	<b>Notes</b>
2825	12	0.4	4	300	ECE W5W, favorite repl. for 168, 194
2821	12	0.25	1.75	1000	ECE W3W
168	14	0.35	3	1500	
194	14	0.27	2	2500	
194NA	14	0.27	1.5	2500	often has bad amber coat get Wy5W from Benz dealership instead used in M-class side turn signal
158	13	0.24	2	500	
193	14	0.33	2	5000	

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Dan explained that the multiple versions of the turn signal bulbs arose when car makers started using several bulbs in a lamp single assembly (such as the famous '66 Charger rear lamp setup, or the '64-66 T-bird's "marquee" turn signals). The law requires a certain brightness differential between the "parking lamp" and "turn signal" function, and to keep the differential correct required tweaking the lumen rating of the bulbs. In addition, as some automakers decided it would be "stylish" to put the front turn signals right beside the headlights (GM trucks, Grand Cherokee, etc.), brighter turn signal bulbs were required to make sure that oncoming drivers could see the turn signals in the glare of the headlamps (personally, I think such a lamp arrangement should be illegal). In general, Dan recommends either going with whatever the manual for your car says, OR using the bulb with the brightest possible turn signal/brake (major) filament rating. You can safely use the slightly higher rated bulbs in older cars to brighten tail lamps and turn signals that may have dull reflector surfaces and look dimmer than they used to. In my case, I picked 2357NA bulbs for the front signals on my Polara, and the signals are much brighter and sharper than with the 1157 NA bulbs I had. Also, be sure not to mix and match side-marker bulbs with instrument cluster bulbs if you want an evenly lighted dashboard.

Dan can also supply quality (American or European made) headlamps and bulbs that are far better than the 'lowest bidder' bulbs found in auto parts stores. The headlamps in particular are a vast improvement over the usual sealed beams from Pep Boys.

Happy restorations...

Steve Lacker

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# Local Activities

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Jan 6, Kars for Kids Planning Meeting, 7 PM at ASI Corporate office 4513 Burleson Rd.

Kars for Kids is going forward despite the change in organizers. The new organizers are asking for volunteers and input toward planning this year's show.

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# CALENDAR OF EVENTS

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Jan 22-24      Waco, TX      Autorama at the Convention Center. Info: (254) 993-2700

Feb 13-14      Conroe, TX      4<sup>th</sup> Annual Winter Conroe Swap Meet. Info: 254-719-2990 or 254-859-5364

Feb 26-28      Decatur, TX      24<sup>th</sup> Annual Wise County Antique Auto Swap Meet Hwy 51, 1.5 miles south of junction 287&51 General info: Decatur Chamber of Commerce (940) 627-3107

Mar 14 1999      San Jacinto Battleground, Houston      Old Car Picnic

Apr 29-May 2      Fort Worth, TX      Spring Pate Swap Meet      Texas Motor Speedway

May 8              Austin, TX      11<sup>th</sup> Annual Kars for Kids      Sonic Drive-in at 134 E Riverside Drive

June 5-6 1999      Boerne, TX      Dodge Charger Meet      info: Wes at (210)493-0750

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# Wanted

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Slant 6 to V8 conversion for A-body

67-72 LA V8 A-Body K-member

or

Schumacher/Creative Services 6 to LA V8 kit

73 + A-body 8\_ or 8.75 rear axle assembly – 3.23 or 3.55, serviceable, SG preferred

67 + Disk Brake Master Cylinder & lines through proportioning valve.

Disk Brake setup for A-body

68-72 B-body disk brakes & spindles, 64+ lower control arms w/ sway bar tabs.

or

73-76 A-body disk brakes, spindles, & control arms; lower control arms w/ sway bar tabs.

Tuff wheel

4 Cop car wheels

A, F, & J-body rear sway bar spring mounts

Battery trunk mount conversion

LA V8 electronic distributor, control module and wiring

OE un-silenced air filter assembly for Carter TQ

LA engine gaskets, bearings, timing chain

**Call Steven Dykes (512) 218-4752**

12/98

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## WANTED

FOR 1967 GTX RADIATOR #2785934

CALL **TERRY 'E BODY' SIEGMUND (512)451-1454** 12/98

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B-body big yoke 3.23 SG rear end for a 73 Satellite, Rallye hood or 6-pack hood for a 73 Challenger, Console mount for cassette player. Call **Mike Cox, (512) 303-3100**

12/98

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Taillight Assemblies for 1968 Barracuda. Call **Mike Mosley, (512) 832-5270** 12/98

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## For Sale

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**Mopar Muscle Cars of Austin 10<sup>th</sup> Anniversary License Plate Frames.** These are metal frames with black-on-white lettering. Frames are now officially real cheap!. Contact **Harry Amon (512) 345-5832** and he might just give you a pair (or charge \$5 each, \$8 for a pair).

12/98

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**For sale or trade:**

OE spreadbore 4 bbl manifold for LA V8 – EGR plugged

9” K&N air filter assembly – Fits squarebore 4 bbl carburetors – NEW  
(element used in assembly below lowers cover 3/4 inch)

OE Chrome, un-silenced air filter assembly for 273 4 bbl w/o CAP

OE 2 bbl manifold for LA V8 – No Smog

OE dual pattern LA V8 bellhousing

Luk 10\_ clutch assembly – NEW

OE steel flywheel for 273-340 10\_ clutch – needs surface dress

Hurst Competition Plus 4-speed shifter mechanism – needs overhaul

Hurst 4-speed installation kit for A, F, & J-body – NEW

Hurst flat boomerang shift lever

White 4-speed pattern shift knob - NEW

A-body floor shift floor pan modification panel

Rectangular floor shifter boot and trim plate for cars w/o console – NEW

**Steven Dykes- (512) 218-4752**

12/98

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**Big Block Stuff for sale:**

3 sets of heads, various casting numbers, 3 sets of HiPo exhaust manifolds, 3 intakes of various casting numbers, BB windage tray, 727 trans., 2 B-body driveshafts, new single-point distributor. \$150 for all **Dave Short, (512) 836-7105**

12/98

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**1968 Plymouth Valiant Project Car**

New polyurethane suspension, shocks brakes, 383 with rebuild kit and motor mount conversion kit, Torqueflite trans, body in good condition. \$750 OBO **Patrick (512) 836-7106**

12/98

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-1972 440 engine (350 HP), steel crank- \$500

-1970 383 HP engine- \$300

-18-spline 4-speed trans- \$400

-23-spline 4-speed (close ratio), apart- \$200

-Aluminum bellhousing- \$150

-Big block heads, 2 each 906, 915, 452, 346 castings

-Exhaust Manifolds for 70 E-body 383

-MP parts, never used, call for prices (want to recover investment- less than what MP charges now!): 509 cam, adjustable pushrods for 440, rocker arm package, roller timing chain, chrome rocker shafts, MP distributor for 440, 933 valve springs.

Call **Isaac Jackson (512) 282-6261**

12/98

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73 Dodge Challenger rolling body w/ NIB trunk floor- \$1000

E-body parts:

non-air dash pad, very good condition- \$100

(2) Rallye guage sets w/ wiring- \$100 each

(2) Standard guage sets- \$50 each

Interior panels, black, fair condition-\$125

Compete front header panel w/ grille- \$100

Front bumper- good- \$75

Doors w/ glass, L&R, interior and exterior trim, \$100 each

LA engine purple cam, .284, NEW in box, \$100

Small block 6-pack setup, \$500

3-speed manual trans w/ shifter- \$35

(2) 73 Challenger Taillight assemblies- \$100 pair

Make offer for all of above Call **Mike Cox, (512) 303-3100**

12/98

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340 Windage tray, used large and small Rallye Wheel centers (both styles), 71-74 driver's side  
340 HP exhaust manifold, 360 Thermoquad intake, 3 small bolt pattern mag wheels with tires, 4  
used 205/70-15 tires, A-body front and rear sway bars. **Harry Amon (512)345-5832**

12/98

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**For Sale:**

**20 GALLON SHOP PARTS WASHER**

ALUMINUM RIGHT ANGLE OIL FILTER ADAPTER FOR SMALL BLOCK

360 ELECTRONIC DISTRIBUTOR

70-74 CUDA REAR 1/4 GLASS W/REGULATORS

MANY OTHER 'E' BODY ITEMS !

**Terry (512) 451-1454**

12/98

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**1972 Plymouth Satellite.** 360 CID 2-bbl, auto, complete, great interior, excellent chrome, road  
wheels, dual exhaust **Enrique Guerra, 512-388-7942**

12/98

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**Parting out 400 mopars,** 1953 to 1976, southeast of Austin. Open Saturday and Sunday. 512  
376 6727 ask for Wendell.

1/99

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