























True or False:

1963 Studebaker Lark Daytona

Wagonaire, 259 V8, 3 sp w/OD, fold-

wn rear seat, AM radio, Blue viny

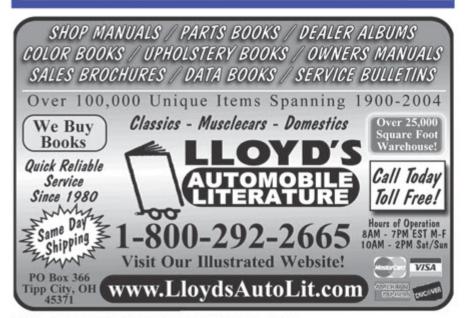
- 1. For the first time, Chevy used newly-developed "plastic" on their dashes in 1940.
- 2. Hudson offered a semi-automatic and an automatic clutch in their cars in 1942.
- 3. In 1941, a government mandate required Buick to replace its aluminum pistons with cast iron ones on their 248 cid straight 8's.
- 4. In 1948, Pontiac changed the name on its "Notch Backs" from "Torpedo" to "Chieftain."
- 5. Unitized bodies were changed to body-off-frame design at Lincoln in 1949.
- 6. Hudson's hydraulic brakes had a backup mechanical system for extra protection in 1948.
- 7. 1946 Ford Super Deluxes had a horn ring instead of a horn button.
- 8. In 1940, Olds offered cars with six or eight cylinder engines for the first time.
- 9. Cadillac introduced its "Sombrero" hubcaps in 1947.
- 10. The wooden body panels on Packard's 1948 Station Sedan were made of maple panels framed with birch.

(Answers on Page 1)



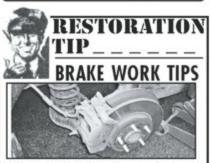
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When doing brake work, wear rubber gloves and goggles, and when working on vintage English cars, assemble brake parts using "LMA" (low moisture activity) brake fluid. Any form of grease will contaminate the rubber parts and will lock up the caliper, master cylinder, etc. Leaving the system "open" for any length of time can allow moisture to enter and form rust on the moving parts: calipers, pistons, master cylinder piston, etc.

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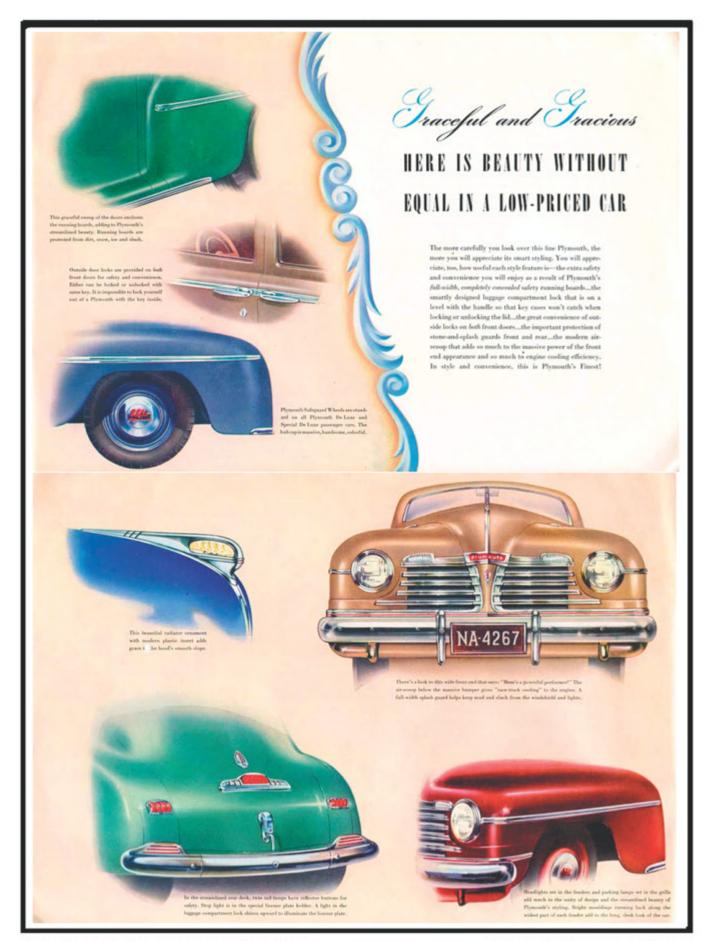
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26 SOUTHERN WHEELS

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SOUTHERN WHEELS 27







NEW LIFE for a **SMOKING STARTER**

by Ron Carpaenter

Number 1

I have a starter that came off my parts car motor and I want to see if it is any good. I hooked it up to my test stand 6 cylinder motor and it started to smoke. Not a good sign. I decided that I

> wanted to see if I could fix it. picture 5273



Number 2, 2A

I took the starter apart and I saw that where the solenoid bolts to the inside coils that the solder was melted. Something was **2A** touching ground and shorting out. With the

solenoid out you can see the melted solder.



Number 3

I have the starter taken apart and I am using my set up, on the press, to take the screws out that hold the winding in place.

Number 4

I have laid out all the pieces of the starter. I have circled the broken insulation that was under the bolt that held the solenoid in place. IT FAILED and broke in to two pieces. I have put a white circle on the coils where the insulation was suppose to be to protect the coils.

Number 5



have the armature in the lathe and I have cleaned up the commutator and getting it ready. I have already tested the armature to be sure it was not shorted. I put my VOM (Volt Ohm Meter) on it and

made sure that there were no shorts between the body of the armature and the commutator. After turning the commutator

down I have to use a hack blade saw and file the m i c a between the

separations on the commutator.



Number 6

After I get the armature

all finished with machining the commutator I like to re-paint the varnish on the coils. I load the coils with varnish which is a special insulating varnish and let it dry over night.



I like to polish everything and get the excess varnish off and the armature is now ready to install.



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Number 8, 8A

One of the problems when the previous person installed the the solenoid they did not have enough insulating fiber washers when they put the starter together. So I found some fiber washers that were 3/8 inch inside diameter, that was what the bolt on the solenoid is, that I could cut down to fit the half inch hole in the case. There has BA to be enough to squeeze together and keep the coils tight

inside the case.



Number 9

I have also found a white fibrous spacer (probably for a sink faucet at the hardware store) so with the other fibrous washers I made I can space the solenoid in the case and have enough crush on the coils. I have the white spacer, on the right side of the solenoid, on the bolt with one of the spacers I just made.



Number 10

I am now installing the metal coil holders in the starter case. I set this up for a previous project.



Number 11

I have been making clearance around the bolt that hold the case together. I used two small C-clamps to hold the solder joint and the coils. I used a tapered punch while holding the coils from breaking the soldered joint and the coils. Took some doing but I got my clearance. One more thing I did was I re-wrapped the coils before I installed them.



This is what the clearance around the armature bolt looked like when it was new. I took another starter apart to get an idea of what I needed for clearance on the bolt.



Number 13, 13A

The starter is all back together and I painted it to make it look pretty. I have already tested the starter on my engine stand and did not smoke just started nice. I made the data plate stand out by painting it and then I just used a razor blade and scratched the paint off and then use a Q-tip with some lacquer thinner to finish cleaning it off.

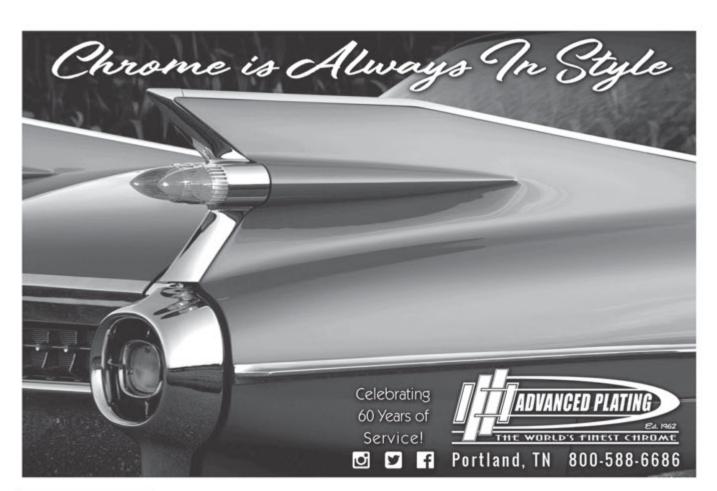


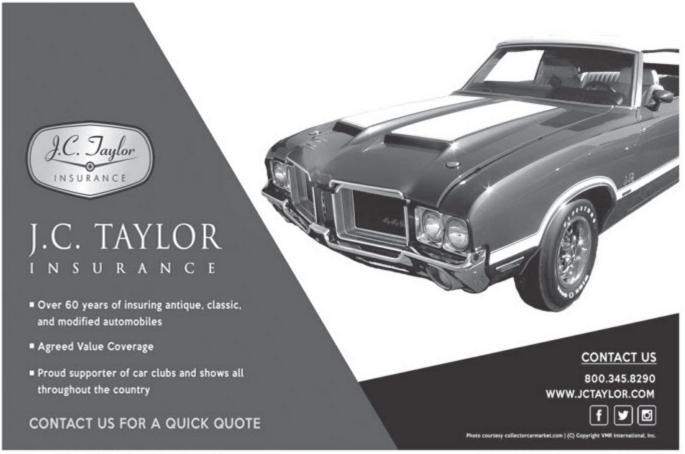


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SOUTHERN WHEELS 33







Southern Wheels Shop Safety Tips ...with Wayne Smith



from Dependo Rent-all

Making a Difference

One day I was coming to work on the interstate I was passed one on the right and one on the left two vehicles racing (new 700 hp charger and a modified turbocharged truck)

doing in excess I would guess, 120 mph in morning traffic. I thought to myself "this is going to hurt". Not me but surely someone else. Got to thinking how prepared was I to help those in the up and coming crash. No first aid kit, no fire extinguisher! Some help I would be!

With Christmas a few months away, here might be a gift Idea? Here is something that can make a difference and even save a life. Years ago I used to carry both of those but somehow got away from carrying them.

Now, anyone that has used a fire extinguisher will tell you their first thought is "Is that all there is in this bottle?" They don't last long ,only 10 to 15 seconds, so get the largest one that is practical for your car and wallet.

Fire extinguishers are divided into four categories, based on different types of fires. A,B, C, & E. Each fire extinguisher also has a numerical rating that serves as a guide for the amount

of fire the extinguisher can handle. The higher the number, the more fire-fighting power. Dry powder fire extinguishers are the best choice for a vehicle The fire repellent inside is rated for use on any A, B and C or E class of fire (depending on your national fire classifications). This means that a dry powder car fire extinguisher will fight gas and electrical related fires, as well as common organic combustibles such as upholstery, paper and cloth that are integral to your vehicle.

Now, if you have children or grandchildren you are definitely going to need that first aid kit as well!

And no, thankfully there was no crash.

Remember, Keep it Safe, Keep it Fun!





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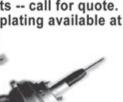
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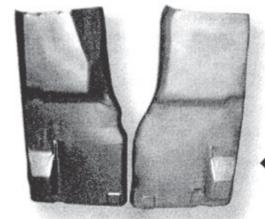
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