

Monday, May 14, 1979

## Driving tips boost mileage

Mileage can be improved with careful driving techniques and planning. Studies conducted by one AAA club showed gasoline efficiency could be increased by as much as 44 percent if driving habits were improved over a typical stop-and-go commuter route. Good planning is the best introduction to good driving techniques:

- If you own more than one car, use the more economical one for as much of your driving as possible, particularly for commuting to and from work, or local stop-and-go driving.
- Plan your driving route to avoid local bottlenecks such as extra-long lights and congested streets. Use less-traveled roads and free flowing highways whenever possible, relying on traffic reports over your car radio for assistance.
- On long trips, start early in the morning to avoid heavy traffic and -- in hot weather -- minimize the need for use of

your air conditioner. Time your driving to avoid rush hour traffic in urban areas, or plan your meal stops to coincide with these peak traffic periods.

- Unnecessary weight in your trunk will cut fuel economy. Keep baggage to a minimum when taking a trip. Packing baggage on a roof rack also creates fuel-robbing air resistance.
- Never carry spare cans of gasoline in your car trunk -- that's extra weight you can definitely do without.

**AFTER GOOD driving planning comes good driving execution:**

- Avoid unnecessary idling -- it can consume gas at the rate of half a gallon per hour.
- Don't rev up the engine and then quickly shut it off, thinking you've primed it to restart. Actually, you've dumped raw gasoline into the cylinder walls where it may wash away the protective oil film and

increase engine wear when you restart. It's also a waste of fuel.

- Even while you're driving you should still be planning. Look ahead to spot slowdowns and red lights. Pace yourself to reach them when they turn green. A car uses much fuel when accelerating quickly from a complete stop. Keep a good space in front of you so you can adjust your speed gradually without closing the gap on the car ahead. If stops are necessary, release the accelerator early and brake gradually.

- Smooth "footwork" is crucial to good gasoline mileage. You'll get the best fuel economy by smooth, steady accelerator pressure for cruising conditions. Gradual acceleration and braking are also helpful.

**YOU'LL GET the best fuel economy by traveling at moderate speeds.** High speeds require more gasoline to overcome greater air resistance.

## Convert V-8 to V-4 with new kit

You don't have to buy the car of the future to achieve the gas mileage you want today.

Nor do you have to sell your V-8 to get a fuel-efficient four cylinder.

It is possible to convert your V-8 to a V-4 with a do-it-yourself conversion kit.

A semi-retired automotive engineer from Wisconsin, Garrol Lucie overcame the dilemma of other conversion kits by developing a kit that does not tamper with the internal engine parts.

A special carburetor doesn't send fuel to the back four cylinders. The valves to those cylinders, which are normally closed on the compression stroke, are now kept open by special parts in the rocker arm assembly.

As a result, not only can the kit be easily installed, but also the engine can be reconverted when the car must be used for

towing, mountain driving, or other high-performance requirements. The reversion takes about one hour.

While the converted car may not peel rubber, driving at the 55 m.p.h. limit presents no problems. The secret lies with the automatic transmission which compensates for lower torque.

How much more gas mileage can the driver expect? Lucie claims, considering all variables, the car may get an extra 100 miles per tank of gas -- an appreciable difference for a luxury car.

Lucie suggests the bigger the V-8, the better his system will work.

The luxury car owner has the obvious advantage of increased mileage without having to sacrifice luxury or go into the debt of a new car. The safety, better ride and luxury appointments of big cars are

enjoyed along with 25 percent better mileage.

The conversion takes nothing away from the engine's life. Lucie says your V-8 engine should still get 100,000 to 150,000 miles with proper maintenance.

Kits are available now for the larger

General Motors and Ford engines and the Chrysler 440. Smaller V-8 engine kits will be available late in 1979 and 1980. The cost of all kits is \$250.

For further information write CARCO, Box 114, Sunnyside, Wis. 54173.

## Old oil can be used in heater

How do you dispose of waste oil after you change your car engine oil, transmission fluid, gear lube, or even drain oil from farm or industrial machinery?

You can burn it and save money. A company in Janesville, Wis. has developed a heater that will burn any waste oil product, and produce 87,000 BTUs per hour. The Kottab waste oil heater is

smokeless, odorless, and burns pollution-free.

A smaller heater -- for home garages -- is being developed. It will put out 40,000-50,000 BTUs. For further information write Gasification Control Laboratories, 13324 Farmington Rd., Livonia, 48150 or call 427-2785.

## We don't just have tune-up parts. We have tune-up answers.



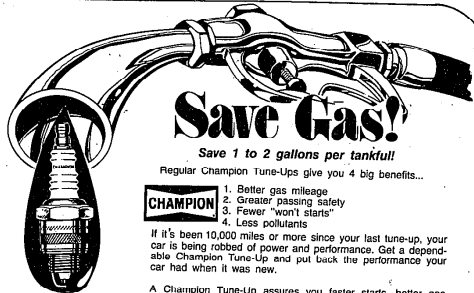
**CHAMPION**

These days, you can buy parts for a do-it-yourself tune-up just about anywhere: hardware stores, department stores, even some grocery stores. But try asking the checkout lady for some tune-up tips. If you do, you'll quickly find out the difference between them and us.

We're professional auto parts people. In fact, we're suppliers to professional auto mechanics. And if a mechanic

knows he can depend on us for the right parts and tools, you can be sure we can help you out. Even if you don't know what you're looking for, our countermen are trained to know the right questions to ask you...to make sure you get exactly the parts or tools you need to do the job right.

So, if you're a do-it-yourselfer, see us. Remember, we're professionals. We've got the parts and the answers to help you do a better job.



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3. Fewer "won't starts"
4. Less pollutants

If it's been 10,000 miles or more since your last tune-up, your car is being robbed of power and performance. Get a dependable Champion Tune-Up and put back the performance your car had when it was new.

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