

# TWIN PEAKS RUN PROEVS EFFICIENCY

## Studebaker Meanders Up Winding Road in Hi With Fast Pickup

There is quite a difference in the performance efficiency of a motor in high gear on hills and heavy pulling which all depends upon the way the car is driven. Many drivers boast of taking such a hill on high gear, but they fail to state whether or not they forced the car at the grade at high speed. In other words, taking a running start at the hill, or made the grade at the ordinary driving speed. Pulling a hill in high gear after taking a run at it and maintaining as high speed as possible and pulling the same grade at slow speed calls for two entirely different kinds of motor performance. In taking a run at the hill the motor has developed momentum to the car that is of great assistance in negotiating the pull. It is at the slower speed that the real test of power and motor flexibility is brought out on a heavy pull, explains Chester N. Weaver, head of the San Francisco Studebaker distributing agency.

"In driving the new Studebaker custom sedans around San Francisco, through traffic and over the hills, we have noticed a flexibility of power that is remarkable for smoothness and quick acceleration and fine performance on the hills, he says.

**Over Twin Peaks**  
"In order to thoroughly test out this motor flexibility and ability to pull evenly and smoothly under a good load, one of the new custom broughams, which is powered with the famous big six motor, was sent over the well known Twin Peaks road in high gear, not as a speed stunt, but driven at ordinary speed and pulling at slow speed on the turns and the steeper pitches. This road has several sharp turns and pitches that give a car a good test in high-gear work, particularly when stunt driving is not resorted to and where high speed is not developed before hitting the grade.

"Everyone is familiar with the sharp turn at the firehouse on this road, as it is at this point that many cars fail to negotiate the pull in high gear. The Big Six Brougham was sent over this road at ordinary driving speed, and on reaching the turn the car was throttled down so it was pulling in high gear at a speed of ten miles an hour. Rounding the turn, stepping on the accelerator, the motor immediately began to pick up and on reaching the top of the hill on the last pitch, before reaching the top of the hill the speedometer was registering 20 miles per hour.

**Proves Flexibility**  
"Rounding the firehouse turn at this speed and then immediately picking up speed is a test that speaks well for the flexibility power of the Studebaker motor and shows up to advantage the reserve power that is at the command of the driver.

"Power is one of the features that place the Studebaker cars in a distinctive position in the field of American-made cars, as, according to the ratings of the National Automobile Chamber of Commerce, there are only seven American cars equal to that of the Big Six Studebaker in power, but in comparing these cars with Studebaker it should be remembered that they sell from two to four times the price of the Studebaker.

"Studebaker's development of power is due to the engineering principles of the I-head motor and the greatest care and precision in manufacturing the power plant. The smoothness and flexibility of power are brought about through the nicety of balance practiced throughout in the production of the Studebaker motors.

**Fitted Crankshafts**  
"As an example," concludes Weaver, "of the extreme care used in assembly of the motor, the crankshafts are fitted to a particular crank case; the six connecting rods are accurately matched for weight and selected to fit that particular crankshaft; pistons are weighed in sets to fit the engine block selected; the engine is assembled into a closely co-ordinated unit, which results in a smoothness and silence of operation that has much to do with the long life; the crankshaft is machined on all surfaces and is dynamically as well as statically balanced. Dynamic balance means overcoming the tendency of the ends to "whip" or "throw out." Static balance means the crankshaft remains balanced

## The Dive of Death



Even automobiles may develop a tendency to nose dive. Death rode with this car when it left the road on a curve near Birmingham, Ala., and plunged 30 feet into a railroad cut. The automobile stuck on its nose, while its driver, was instantly killed.

wherever stopped in its revolutions.

"Crankshafts are balanced within one-tenth of an ounce and sixty-four operations are required, together with one hundred and sixty-four tests in manufacturing it. Fifteen of its dimensions are held to a tolerance of two and a half thousandths of an inch."

**SECRET OF TIRE LIFE**  
The real secret in making tires last is taking proper care of them. This involves keeping them fully inflated, preventing mineral oil and gasoline from coming into contact with them, keeping loads well within their capacity, repairing tread cuts at once, and similar measures.

**HOW TO CLEAN OIL LINE**  
When the oil gauge does not register and it is believed that the crank case has oil in it, disconnect the oil line, blowing it back toward the b-paths or oil pump. This will clear the line of any dirt or sediment until it can be removed for a thorough cleaning.

**DANGEROUS**  
Ted—"Medical men tell us that the motor heart comes from joy-riding."  
Ned—"Looks to me as if it were likely to be the result of petting parties."

Cover the distributor and coil to protect it from rain and fog. Any moisture on either of these units may cause a short circuit and the engine will fail to start.

## Motor Knock Causes Bared

If a pound in the engine is regular and continuous, it is likely to be from lost motion in the bearings. If it is irregular and occasional, it is more likely to be due to pre-ignition caused by incandescent carbon or from imperfect connections. If the pounding is accompanied by occasional missing, especially if the missing is more frequent when the car is running, is more apt to be due to imperfect electrical connections.

**TEACH HIM TO HONK**  
Young Mother (proudly)—See! Baby is learning to walk!  
Friend—Oh, do you think it really worth while to teach him? Practically nobody walks nowadays—"Life."

**WHEELBARROWS**  
"So you come from America, the place where they make all the cars?"  
"Yes. But I would have you know that we other things besides cars in America."  
"I know, I've ridden in them."  
—Manchester Evening "News."

**RUN NEW MOTOR SLOW**  
Do not run a new engine or one that has just been overhauled at a high speed for at least 500 miles. The friction of the moving parts creates heat which expands the metal and frequently causes damage difficult and expensive to repair.

## Ace Tire Shop Now Agency of C. & J. Tires

It has been announced by W. H. Clark, manager of the Ace Tire Shop, that his company has taken over the exclusive agency for the G and J tires. This tire is one of the best known makes in the east, and they are making their first appearance on the west coast this year. The G & J company has been in the tire manufacturing business since 1892, when the bicycle craze was at its height, and they have been making automobile tires since 1902.

According to Mr. Clark his newly acquired product, is insured road hazard. This is a great advantage in a country where all the roads are not of the smoothest and where there is a great deal of hill climbing encountered even on the shortest trip.

The Ace Tire Shop will continue to carry its usual stock of C. T. C. tires, besides doing vulcanizing and retreading of tires.

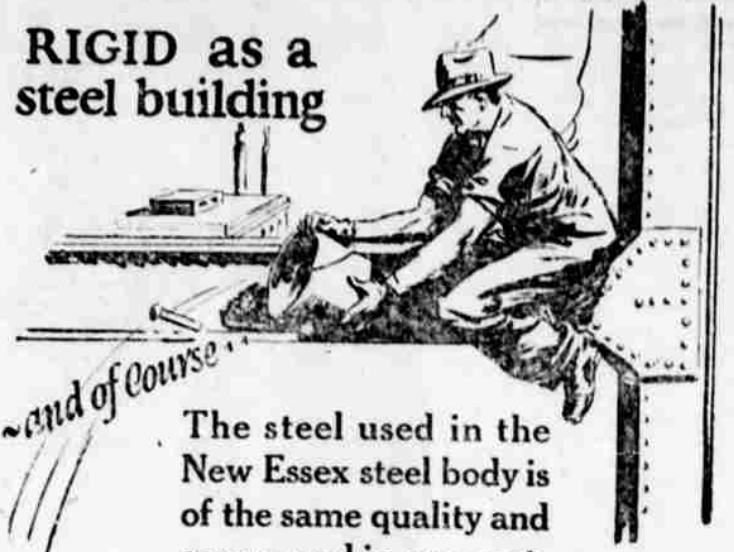
### CAN YOU TRUST IT?

There are times when the road is good, and the moon is bright, and the engine purring, when the difference between heaven and earth is the thickness of your brake lining.

In taking the battery out of the car, or putting it back, care should be taken to keep it in a vertical position. Some sediment may be in the bottom of the jars, and tipping them may cause this sediment to get between the plates and so short circuit them.

# ESSEX '6' COACH

## RIGID as a steel building



The steel used in the New Essex steel body is of the same quality and gauge used in cars costing \$4000 and upward.

ACME MOTOR CO.

400 So. 6th St.

Phone 688

## ANNOUNCEMENT

The G & J Tire—none better made—are now stocked in my shop. These Tires are insured against road hazards

# ACE TIRE SHOP

115 So. 11th St.

W. H. CLARK, Mgr.

Phone 843-J

## An Important Announcement to Every Car Owner



**The G & J Balloon**  
A true balloon tire, built to render long and comfortable service. Its wide, flat tread gives longer wear, and better traction and anti-skid protection.



**The "G" Tread Balloon**  
A tire of rare economy for the car owner who does not require the extra service of regular G & J Balloons. Ideal for Fords and other light cars.

WE are glad to announce that we have become distributors for the famous G & J line of automobile tires.

Thousands of car owners in this city know the long-established reputation of these tires.

In fact, so faithful has been the quality of G & J Tires for nearly a quarter of a century, that they are spoken of everywhere as "Good Old G & J."

It is known among tire experts that G & J Tires have embodied all of the greatest improvements in tire building since 1902. In many cases they have led in advancements in the industry.

Today, G & J Tires are made in the most modern tire factory in the world—by the most modern manufacturing methods developed by science.

We are proud to stand behind a tire that gives the motorist the exceptional service of G & J. Mileage is built into every tire in the line, which includes a tire for every need.

The G & J Balloon Cord shown at the left is a balloon tire in the truest sense of the word. It is made of a cord fabric which is equalled in few tires for its ideal combination of great strength and exceptional flexibility. Note the wide, flat tread which reduces wear per square inch and affords greater traction and anti-skid protection.

At the right is shown the G & J Heavy Service Cord. Here is a tire that is scientifically built to stand up under severe service on trucks, buses and heavy passenger cars. It is a tire that will give low cost operation wherever the going is hard.

We fully recommend in addition to the G & J Balloon and Heavy Service Cords, the following: "G" Tread Balloon, G & J Cords, G & J 30 x 3 1/2 "G" Tread Cords, G & J 30 x 3 and 30 x 3 1/2 "G" Tread Fabrics, G & J Red and Gray Tubes and G & J Heavy Service Red Tubes. Let us help you to solve the tire problem.



**G & J Heavy Service Cord Tires**  
Assurance of long, uninterrupted tire service and low cost tire service on trucks, buses and heavy passenger cars. In such use G & J Heavy Service Cords will prove themselves equal to any task set for them.



**G & J "G" Tread Cords for Fords**  
Ford Owners will find G & J "G" Tread Clincher Cord Tires ideal. They offer real economy in tire service. (Made in 30 x 3 and 30 x 3 1/2 sizes.)

The Good Old



TIRES & TUBES

NOTE—The G & J Tire Company was organized in 1892 to build bicycle tires. It began building automobile tires in 1902 and in 1903 produced the first cord automobile tire. G & J stands for Gurnee and Jeffrey.

## Guaranteed Used Buicks

- 1924 Touring ..... \$800
- 1923 Touring ..... \$650
- 1923 Touring ..... \$575

All the above are in first class condition and will give you more service than any new car at the same price. We have several other cars to pick from.

## Buick Garage

Opposite White Pelican Hotel