Three Days

JANUARY 19, 20, 21

# 40 Cars to be Sold Regardless of Cost

Three Day JANUARY 19, 20,

ROADSTERS, TOURING CARS AND TRUCKS. BUY NOW AND SAVE MONEY

#### SALE SPECIAL

Chevrolet Touring Car worth \$400.00, starts at \$225.00 and drops \$25.00 a day until sold.

Terms can be arranged.

Don't fail to see this one.

## SACRIFICE SALE ON USED CARS

Your Own Price

Your Own Terms

H. MERTEN

206 N. JACKSON ST

### **BUICK SIX**

Taken in at \$800.00. Sale price \$350m Easy terms.

Many others at prices never before heard of.

#### **NEW CAR NEEDS** CAREFUL NURSING

Life of Car Depends Much on Early Attention.

Many Things Are Necessary to Be Done in First 1,000 Miles-Proper Greating and Adjustment of Nuts Important.

To maintain a car in good running order so that it will give long service at minimum expense means that it

especially during early life of the car. There are many things to do, the most necessary of which are the following: Tighten all nuts and bolts after the first hundred miles of travel; drain oil from crankense and replace with fresh oil after first 500 miles; after 1,000 miles drain oil again, pour is about a quart of fresh oil, run the entire a few seconds and again fresh. gine a few seconds and again drain, then remove oil pan and clean with kerosene, replacing after cleaning and refill with correct amount of fresh oil. Travel no faster than 25 miles per hour the first 1,000 miles, as engine is stiff and bearings must be worn in stewly; otherwise a notsy'engine will

check up on valve, timer and carbure-tor adjustments frequently, always, keeping the leanest possible carburetor mixture; jack up wheels and test for looseness by shaking, and if there is any play readjust the bearings; use good oil; keep tires fully inflated; don't race the engine when the car is stand-ing; keep cooling system filled with water and see if water is circulating; water and see if water is circulating; if not, examine pump and hose connections to radiator, and when cleaning the car, which should not be done frequently until the varnish has hard-ened, do not use a strong stream of water and do not rub away dust with a cloth. Washing with a slow stream of water is the best.

#### HOW TO DETECT DECAY IN TIRES

Signs of Old Age Much Like Those in Men-

Wrinkles and Cracks in the "Skin" Show Casing Is Getting Into "Senile" Stage-Care in Storing.

When numerous small slits and cracks appear in a tire it is a sign

of the approach of old age. casings in this respect are like men and women. Although they don't get gray halred, they do become wrinkled and cracked, often chalky white in appearance.

The fabric in an old tire gradually becomes brittle and bard, so that it breaks easily. Like the bones of old people, it is difficult to knit. The tire surgeon's work increases in difficulty with the age of the casing.

Those whose strength is conserved do not so readily show their age. The best way to preserve their usefulness is to take care of them. To hide the effects of age and wear motorists frequently "doll them up," painting the

side walls and washing with cleaning solutions. Others pay no attention to their appearance and permit them to

Ordinarily the small cracks appear-

ing on the side walls do little harm unless they penetrate through the rub-ber covering to the fabric underneath. It is well worth the motorist's attention to have his casings regularly inspected.

age fastest when lying around. They are kept in best condi-tion in actual service. If it is neces-sary to store them they will retain their life longest in an even and mod-Tires erate temperature and light.

Spain, must be equipped w attencer.

A tire will "give out" overloading than from al er cause.

The Free City of Dates with a population of 250 motor vehicles.

Truck tractors used with trallers are registered as in Pennsylvania,

New York city has been 243,000 license plates for nuromobiles for 1022.



Ignition, Lighting and Battery Experts.

Graduate Electrical Engineer



DISTRIBUTORS FOR

DOUGLAS AND COOS COUNTIES

## ROSEBURG BATTERY & ELECTRIC STATION

PHONE 489

"THE HOUSE OF A SQUARE DEAL"

SERVICE CAR

### **NOISY GEARS MEAN DANGER**

Tell Story Owner Ought to Interpret in Terms of Dollars and Cents.

#### LACK OF OIL CAUSES TROUBLE

Study of Rear Axie Construction and of Transmission Would Save Owner Much Trouble and Some Money.

It is a fact that a great number of our cars are being driven over the roads with noisy gears. This is being done either through ignorance or in direct deflance of that well established of the gear besides being unpleasant, tells a story which the owner ought to interpret in terms of dellars and cents, Without knowing anything at all about a rear axle or a transmission, the average man should be able to know the difference between a rear axle that is normal and one that is not. He may not know the exact cause of the trouble or the manner in which it may be remedied but he certainly ought to be able to determine if it needs the attention of a mechanic. The reason for this immediate interpretation is to save the owner money, for, like a case of pneumonia developed from a mere cold, if attention were given early enough, the serious allowed would not have developed. Once their bearings begin to wear and so throw the gears out of their relative running truth, the gears themselves are affected so that if the condition is allowed to get worse, pretty soon the gears cut and cldp and then fall alto-

Two Out of Five Noisy.

Observations were made at one spec-along a frequented highway, where for hours an average of 1,000 cars per was kept on genr noises on a level stretch and without exaggerating, every two cars to five had noisy rear axles. It is doubtful if the owners of the cars realize the meaning of such noises, and if they know that is its per cent of the cases the condition can be corrected for a few dollars, per-haps requiring only hearing selfus

ment, shifting of the differential, a quart or so of oll.

The rear axle is not the only offender The transmission gears need the same protection, but usually they are

In order to understand just how noisy gears come into being, one should study the rear axle construc-tion. The driving piulen at the end of the propeller shaft is mounted usually on two bearings. This pinion meshes with the large or ring gear of the dif-ferential unit, the unit itself being mounted on two bearings which rest in the differential housing. In order that the ring gear and the pinion do their work without noise the teeth of these gears must mesh properly, the correctness of the mesh is stroyed then noise results. Should the pinion shaft (bence the pinion itself) more relative to the ring gear the tooth contact is at once changed and you get noise. The noise is not necyou get noise. The noise is not nec-centrily a stendy one, but it may be interrupted, due to the fact that the new areas of contact of the teeth are not all allke. There may be a high spot on one or two or more teeth and when these high spots are struck the police changes.

Lack of Lubrication.

The pinion bearings may be of the ball or roller type and there is, in most cars, a means of adjustment of the bearings after they have been ween slightly. The cause of the wear may be natural, but in nine out of ten cases it is due to tack of inbrigation The differential bearings are not like the pinton bearings in the effect they have no goar noises. Those bear lings if worn even slightly will allow the whole differential unit to shift side ways and so disturb proper gear mesh, Once they start to near and permit this action, the wear is rapidly accel-erated so that in a very short time there is no definite tooth contact

The time to stop the pear noises is immediately they appear changer for you and better for the car.

#### WOMEN DRIVE HEAVY TRUCKS

Miss Mary Mahord and Mrs. Bogardis Take Big Vehicles Safely Through Crewded City.

ducted recently by the Keystone Motor club, in Philadelphia, Miss Mary Ma-bood and Mrs. A. L. Bogardis, drose two live-ton trucks through this o ter of the city with perfect sufer Miss Mahood has been driving a kinds of care from the time she we sixteen years old.

## ESSEX

## Endurance is Almost Doubled

No casual acquaintance could create the bond of esteem owners hold for Hudson and Essex.

It has grown through an intimate companionship in steadfast service. It has thrived in weeks and months that brought no disorders or disappointments-no requirements of attention,

Is it remarkable then that this friendship is so manifest it causes comment everywhere? You too have observed it. And all might covet an ownership that has so many substantial elements of satis-

What owners know of Hudson and Essex has put all concern about the car from mind. So far as certainty of destination is involved the Fludson or Essex owner commits himself to a journey across town or across continent with equal serenity.

And then never before was Hudson and Essex price advantage over cars of comparable quality so striking as now.



### H. MERTEN

Motor Cars and Tractors

ROSEBURG, OREGON.

### WIRE DEFECTS CAUSE TROUBLE

Welfare of Automobile Depends to Large Extent on Good Wiring.

#### CAREFUL ATTENTION

selves With Electric System of Their Cars-Dim Lights Are Warning of Trouble.

The wiring of an automobile is its enous system and owners ought to uniliarize themselves with the troubles that poor wiring brings about. many of the complaints si

ently borne by the storage battery, the generator starting motor, and lamps are largely traceable to the viring between these units.

The first thing to do when the lights grow dim and the starter is wenk is to test the battery solution, and if its gravity is 1280 or better then the buttery is all right. Since the barrery feeds at speeds usually below 15 miles un hour and the generater takes the whole load above that speed, if the lights are dim below 15 illes an hour suspect the wiring; the feed out of the battery, in other

Due to Bad Connections.

Frayed insulation at the terminals ten allows a strand of wire to get bose and touch another wire or confact point, and you immediately notice a slight treemlarity in ignition or ighting. In the average car the elec-rical connections are in a bad placebehind the instrument board—and you must either remove the board or fuss indermeath and take a chance on trycurrent travels through the nmer, if there is one. A bad cono at the meter opens the circuit and the guardian of the whole system is put to sleep, which means you don't lows provides for more recommendations whether the hattery is pattern whether the hattery is getting change of automobile confidence.

A car is driven over all sects of reads in all kinds of weather, and naturally water and dirt will get outouth the parts. The wiring housed in a stables, and almost as many frame channel or on the engine side of stations and repair shops the dust is not expended. the dash is not excepted. On a rainy were blacksmith shoot-

day the fan draft cards the engine compartment a and cables get their share this for many months and soon soak up enough mess them constantly wet, been tinual trouble.

Should Be Protected In order that current for and uninterrupted, it is necess the wires be properly potential that the terminals be di cure. A loose connection of low of the full measure flowing all the time. One loose ignition wire

the operation of the engine corroded terminal might sig gine, prevent the starter for ing and the lights from burn The electrical wiring has rarely gives any trouble bear

well protected.

In the automobile much ding is not so protected, but? can get equally good result viding substantial covering cable and terminal so as

the trouble makers-water an occasional inspection and will defeat the effects of the if which is inevitable.

## AUTOMOBI

When oversize tires are is the car owner should be care there is enough clearance ber the tires and the nearest pers

Hold your hand ever the in tube occasionally while the sa running to see if air is pas the breathing tube gets closes a back pressure on the pisses duces the power of the mea.

The engine of a car that h on the road for two or three P be apt to give better service efficient delivery of power used that is heavier than the which was originally indicate

A bill recently introduced by foreign countries.