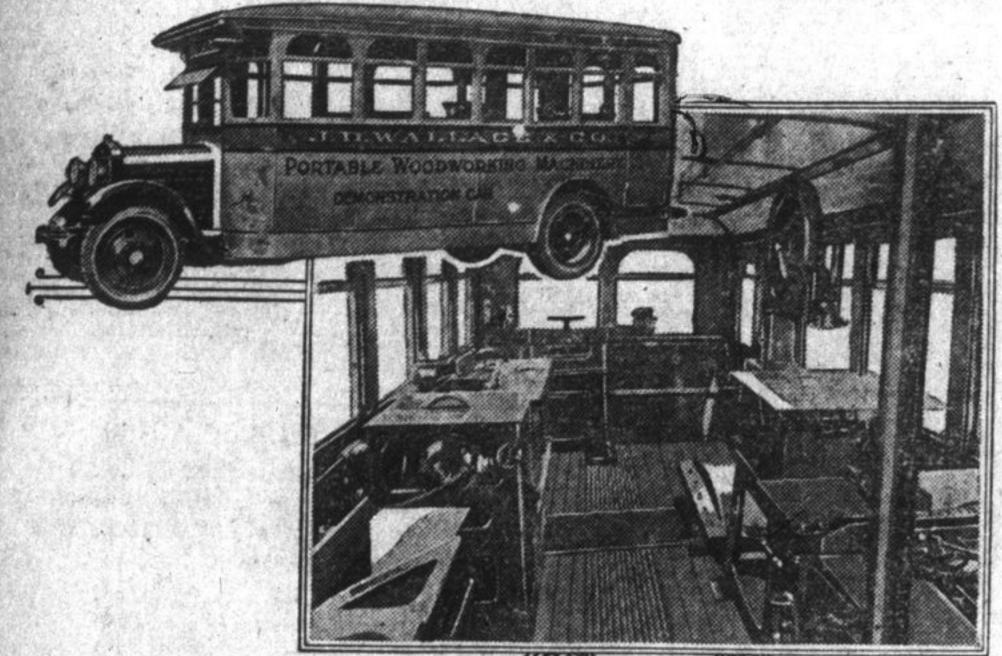
In the Automobile World

Reo Bus Used as Demonstration Car More Than Pays Its Way, Sales Manager of J. D. Wallace & Co., Says



Purchased primarily as a demon-| secure the attention of buyers whose | A pile of wood is carried in one ing concessions to the detriment of stration car, the Reo Bus, pictured doors had been closed to them in corner of the car suitable for demon- public parks and beauty spots. above and owned by J. D. Wallace the past. In addition, the unique strating all the difficult tests for equipment has proved of universal equipment of this kind. The bus & Co., of Chicago, has more than advertising value to the company also carries an electric cable so that When brakes are relined the paid its own way with direct sales, that operates it. According to Mr. if any question arises regarding the drums should have been turned up according to H. L. Ramsay, sales Ramsay, several additional units are amount of current that is necessary smooth. Grooves and ridges on the manager of the operating company, soon to be purchased to make one to operate, the operator can run in brake drums destroy broke lining

Reo Bus was intended to provide a The motor bus is so constructed The new bus is said to be a vast aplied to the inside of the brake lin-

means of demonstrating the wood- that by means of a power take-off improvement in every way over the ing will temporarily overcome the working equipment manufactured from the drive shaft the engine is old practice of loading one of the noise and make the brakes hold much by J. D. Wallace & Co. to prospects used to operate a generator that de- machines onto the back of an ordi- more firmly. who were luke warm, who in the velops the electricity for motor driv- nary roadster. Not only was the estimation of the salesman could be en machines manufactured by this number of machines that could be sold if they were given a demonstra- company and installed in the demon- taken in this manner limited, but | Motor car license plates for Kanstration car. Less than thirty sec- the arrangement was inconvenient sas cars in 1927 will be crimson and But it was soon proved that with onds are required to stop the car for demonstrating after getting the blue, the colors of the University of the aid of the bus, salesmen could and put the generator into operation. prospect's attention.

MOTORISTS PRESENT A "BILL OF RIGHTS"

Chicago, July 10 .- Important measures adopted at the annual convention of the American Automobile Association held here recently, included resolutions to:

1. Urge state governors and legal officials to use their influence to do away with the "fee system of arrests" on the highways, to keep the roads free as possible from detours and to inform the public of road openings and closings.

2. Oppose compulsory automobile liability insurance as not being in the interest of safety and calculated to place an unfair burden on the mass of responsible car owners.

3. Oppose changing the automobile tail light from red to yellow. 4. Urge Congress to enact a law for the regulation of motor vehicle

common carriers. 5. Demand that the remainder of the war excise taxes be repealed. 6. Oppose use of special taxes for purposes other than road work.

Commission of gasoline prices. 8. Condemn the practice of grant-

7. Command a fair and impartial

investigation by the Federal Trade

Primarily the specially equipped such bus available in every section the cable through to an electric and many squeaks and howls come light socket to run on local current, from that cause. A little caster oil light socket to run on local current. from that cause. A little castor oil

Rah-Rah Collegiate !

CHRYSLER Supreme Performance Supreme Pal Values Suprementational Values Sensational Sensational

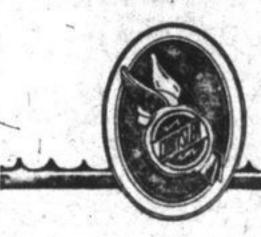
Today's Chrysler "70"-changed in no way except new lower prices which save you \$65 to \$410—is more than ever the car of world-wide preference. We knew that the Chrysler "70" would sweep its way to pre-eminence, but we did not anticipate the tide of

public favor which makes possible these sensational Long lived; characteristic Chrysler beauty; designed

to meet today's traffic needs; roomy for comfort and luxury; easiest to handle; flashing pick-up; 70 miles plus: safe-

Little wonder that none of its more than a hundred thousand owners who have enjoyed uninterrupted satisfaction from their Chrysler "70's" for thousands upon thousands of miles, will ever willingly go back to the less modern type of cars.

We are eager to prove to you why the Chrysler "70" with its savings of \$65 to \$410-the identical car whose performance and endurance have won such universal preference—is beyond all doubt the preferred motor car investment at theselower prices in its class.



Value of Perfect Lubrication.

transmission, rear end, universal

joints, spring shackle bolts, king-

pins, etc., is just as important as the

if the parts affected are to retain

American Efficiency.

most twice as efficient as the European industries, according to CirB:

Nixon, British automobile manufac-

turer, who recently visited that

American motor factories are al-

their life and quiet operation.

country.

The lubrication of the odd parts of the car, such as the steering gear,

Phaeton .

Coach . .

Roadster - - 2195

Royal Coupe 2470

Brougham - 2540

Sedan - - 2260

Royal Sedan - 2615 405

Crown Sedan 2760 410

F.O.B. Windsor, Ontario (freight only to be added). The above prices include all taxes, bumpers front and rear, spare tire, tire cover, and tank full of gasoline.

Chrysler dealers are in position to ex-tend the convenience of lowest available time-payments. Ask about Chrysler's at-tractive plan.

Chrysler Model Numbers

Mean Miles Per Hour

New Prices Savings - \$2035 \$ 65

- 2035

CLARKE BROS. 371 King Street. Telephone 2357f.

ALBERT L. CLOUGH Editor Motor Service Bureau Review of Reviews

More About Squealing Brakes

Some Of These Remedies Should Fit Most Cases THE RESULTS OF CAREFUL RESEARCHES recently published. while they fully confirm the theory of this ear-piercing phenomenon. as set forth in an article published in these columns in August, 1924, turlude many additional observations and suggestions, among which are the following:

What Causes Squeaking? Brake squeak is the natural tone or "ring" of the brake drum. due to its sonorous vibration by particles of grit, worn off metal or by fabric wire, rubbed by the lining against the doum-the hard

particles forming and moving in grooves, where they act like a phonograph needle in the grooves of a record. Making The Lining Bear All Around Sonorous vibration cannot take place in anything that is tightly neid, for such movements are then instantly damped and the essential precaution against squealing is that the lining shall contract evenly about practically the entire drum. That it may do so, band clearance

must be uniform at ail points, the band must be free at its backanchor support (not rusted thereto), so as to follow the contracting movement and it must be shaped to fit the drum. Care Of Bands And Drums Band lining must be kept free from embedded grit and metal particles by frequent washing and brushing and no metal wires should

protrude through the fabric surface. Grooves worn in drum surfaces should be smoothed out by means of emery cloth. Drums should run true and their surfaces should be flat and free from ridges. Rivet heads should be kept well below the rubbing surface of the lining. Drums of hard steel are desirable on account of possessing greater resistance to grooving. More Flexibility For Linings

Anything that makes the lining hug the drum closer and conform to it better tends to dampen squeaking and therefore inserting a felt strip between the band and the lining is suggested. Making the lining in a number, of sections instead of a single piece, is another expedient to secure closer and evener contact with the drum. Shims Behind The Fabric

In case of a drum that is worn down near its center and is high along the edges, sheet metal shims inserted between lining and band may be found to counteract the effect of the worn drum and tend to give the even pressure that discourages squeaking.

Lining Lubrication Stopping squeaking by lubricating tinings or by treating them with special anti-squeak compounds, involves possible danger of lessening brake effectiveness and even of causing locking of the fabric on the drum. If any lubricant is to be used, a little pulverized graphite is probably the safest, particularly as abrasive particles do not stick to it. Drums, upon which both internal and external bands are simultaneously applied, seldom squeak.

EARLY PISTON RING

H. B. writes: My 1924 ---

OMPRESSION IS

NEEDS NEW RINGS!



not water over the manifold or to fill the radiator with hot water? car, driven about 5,000 miles, shows In using the latter method, should the water be boiling or merely hot? somewhat weak retention of com-is there any danger to the radiator pression and I am going to install in using very hot water? new piston-rings. Do you advise new piston-rings. Do you advise Answer: . If the choke can be using inner-rings in connection losed tightly and there are no air- with them? leaks into the intake system, there Answer: So far as service renshould be no need of hot water. | tered is concerned this car may be Pouring hot water on the manifold regarded as practically a new one and carburetor or applying to these and it is a sad commentary upon parts cloths wrung out in hot wa- factory production and inspection ter, produces quick results with less methods that its engine should

trouble than supplying hot water need new rings, thus early, taking to the whole cooling system, but for granted, of course, that it has the engine will begin to run nor- always had proper care and never mally sooner with hot water in its been subjected to abuse. Evidently jackets. Hot water will not dam- the manufacturer believes that inage the radiator, but severe crack- ner-rings are not necessary in his stresses may be produced in the cylinder casting by such a sudden change of temperature as boiling water causes in very cold iron.

This boiling water treatment is risky in the same way as pouring cold water into overheated engine in the cylinder bores are in good condition and the ring-fitting job is a good one, you should obtain good ring action without requiring any more spring pressure than that inherent in the rings themselves.

Abbreviating "Warming Up" Time Making The Most Of The Engine's Own Heat

THE FASTER HEAT is developed by an engine, the more closely it is localized where it will assist vaporization and the less of it that escapes, the sconer engine temperature will reach the normal running

Discarding Unnecessary Water

Cooling systems contain a liberal surplus of liquid to meet extreme hot weather and hard service conditions and if the radiator is kept full, in winter, an unnecessary amount of engine-developed heat is required to bring this excess of liquid to a good running temperature. During cold weather it is perfectly feasible to operate with the radiator filled only full enough to insure that the inflow pipe to the upper radiator tank is covered. Water temperature rise and the attainment of satisfactory fuel vaporization and distribution are materially hastened by reducing the amount of water that has to be heated.

Reducing Water-Flow Rate The rapid heating of the jacket water in thermostat-equipped cars , can be crudely secured by means of a home-made clamp, arranged to flatten the upper water hose and thus partly cut off circulation to the radiator, but this scheme should not be carried too far. Another method is to replace the gasket under the outflow water manifold with one having slightly smaller water passages.

Preventing Heat Losses Retaining engine heat by covering the radiator-front, by letting down the curtain of the bood-cover, tightly closing the radiator shutters (if any) or by heavily blanketing the front of the radiator and the entire hood is very helpful and indeed any procedure which stops the

fan blast and reduces connection is beneficial The Most Heat From The Least Running Running an engine with late ignition increases the proportion of heat imparted to the jacket water and exhaust gases, and the use of the retarded spark, during the warming up process, heats the cooling water faster, makes hot spots and warm air stoves more active and hastens warming up with the least fuel expenditure and wear and tear. Violent racing of an engine to heat it rapidly should never be practiced, as it is about the worst form of engine abuse even under ordinary circumstances but when it is coupled with the inadequate lubrication found in most cold engines, it is especially destructive.

Heat Conserving Adjustments To facilitate prompt attainment of normal vaporization and reliable running, all adjustments of exhaust heat supplies to carburetor jackets and intake manifold hot-spots should be set for maximum results and all carburetor air should be supplied in a heated condition. Failure to adopt "winter settings" of heat sources is responsible for much delay in establishing normal carburation conditions, in cold weather.



C. H. V. writes: One of the jars of my battery became cracked and I had it replaced by a new one, but since then the water level falls below the tops of the plates in three or four days. Is this because the battery is charged too high? Auswer: It is not clear from the above whether the water level becomes low in all three cells or only in the one the jar of which was replaced. If the former is the case, cross supports be prevented from the loss of liquid may be aggra- bulging through the material of vated by the rate of charge being the top of a touring car?

slopping. If it is only the one cell which is losing electrolyte, it seems most likely that the new jar is imperfect and that this cell is still leaking. You better take this battery back to the parties that made the repairs and let them test it out and remedy anything which is

MORE SUBSTANTIAL TOP



L. T. O. asks: How can the

altogether too high, although you | Answer: The only way of which say nothing about the charging rate | we know is to have the top made of the generator having been in- over with more stiffening material creased and it would require a and padding between the outer. very excessive charging current to waterproof fabric and the inner boil away so much ilquid so quick- material. A carriage trimmer could ly. It may be that the cell covers probably revamp your top so that are imperfectly sealed in place and the cross bows would not show that there is loss of liquid due to through and injure its appearance.

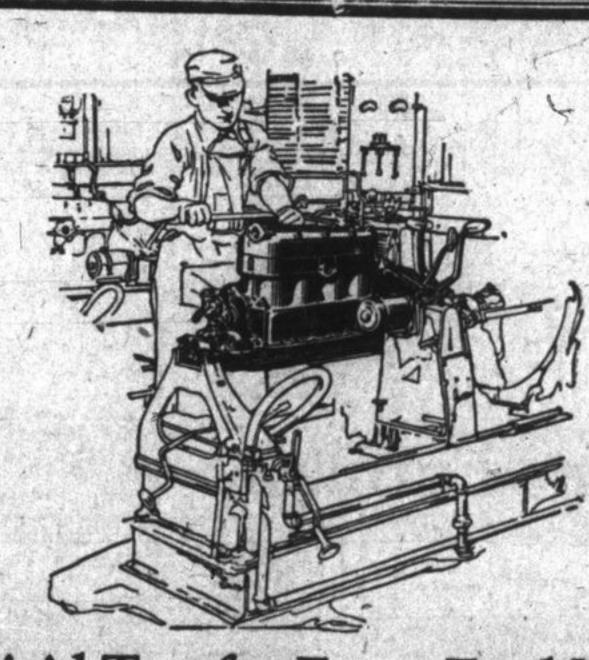
Questions of general interest to the motorist will be answered by Mr. Clough in this column, space permitting. If an immediate answer is desired, enclose self-addressed, stamped envelope.

The Unhappy Driver. things" about his car never enjoys surements between the front and the ride. Worrying never tightened rear edges of the front wheels. a loose hearing nor greased a differ- "Pitch," or "camber" is the differential. It is not always easy to dif- ence between the distance across the fentiate between harmless noises and tops oft he wheels and the distance those other noises which warn of a across the bottoms. Wheels on breakdown. The real art is to be which the tires toe-in excessively able to have an ear ready for evi- have the effect of rubbing the tire dence of serious trouble, making the tread against the road, greatly reannoying squeaks and rattles a ducing its life. When the toe-in does closed book that nothing can be done not agree with manufacturers' reabout for the time being. So, to en- commendations it may be easily adjoy the ride, go over the car before justed by adjusting the tie rod or leaving the garage and see that it distance rod. In case of rapid tread

The Toe-in of Tires. A driver who is forever "hearing Toe-in is the difference in meais right. Then, if a rattle develops, wear on tires, check the alignment ignore it until the car is driven promptly, as no other condition rehome.

BY HAVING YOUR AUTO CYLINDERS RE-GROUND AND NEW PISTONS FITTED.

FLYWHEEL RING GEARS FITTED



A Rigid Test for Every Ford Motor

The Ford Model T Motor, established seventeen years ago as the standard power unit for Ford passenger cars, is universally recognized as an engineering triumph of simplicity and

In order to maintain that standard of performance which has distinguished it in use the world over, every motor undergoes a testing and "running in" process before it is permitted to pass to the assembly line.

The motor is mounted on a block and connected to a powerful electric motor which operates at a speed which permits of every working part being tested and perfect synchronization assured.

This process continues until the motor is running with perfect smoothness, and then, and only then, is the motor approved. The freedom from mechanical trouble which Ford owners enjoy has its origin in tests such



CARS

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PRODUCTS OF TRADITIONAL QUALITY