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# COOLING SYSTEM MOST IMPORTANT

Many Motorists Experience Considerable Trouble From Their Engines Overheating.

## MEANS TO PREVENT TROUBLE

Most Essential That There Be Free Circulation of Water, Freedom From Scale and Strong Cur-rent of Cooled Air.

rent of Cooled Air.

Every automobile owner or driver knows from experience that a ms engine becomes hot after running for some time. This is the to the explosions or rapid burning of the gas inside the cylinders.

A large percentage of the heat developed in the cylinder goes to heat up the cylinder walls and if these cannot he cooled either by strong blasts of air or water circulation around them, they will become so hot that they will crack and break apart or at least become warped out of shape and become useless. By far the greater number of cars use what is known as the water-cooling system.

How Water is Cooled.

the greater number of cars use what is known as the water-cooling system. How Water is Cooled.

The mater hows around the cylinder waits and then through piping; and rubber hose connections into the jadiator where it is spread out in ithin sheets or small pipes which have an fumense amount of surface exposed to the air. In this manner the water is cooled and then flows back to the engine in order to keep it, also, cooled to the proper temperature. If any part of the cooling system fails to function properly, the ethicses are not condeil and was given fails to function properly, the ethicses are not condeil and was given fails to function properly, the ethicses are not condeil and was given fails to function properly, the ethicses are not condeil and was given fails to function properly. The collection of the beated above 212 despreas P, without typing pinced under pressure. Thereford, the water while hows around the cylinder wails cannot be heated above this temperature. It wait rupidly, evaporate by holling. If the engine is run without water in the water function the explicit of the cylinder walls will be heated above their normal temperature, with heated above their normal temperature, and the piston will begin to cut small softs lengthwise on the wall sufface and the piston will begin to cut small softs lengthwise on the wall with the result that often the engine if III, in a few minutes time, be seriously damanged.

Necessary Conditions.

result that often the engine will, in a few minutes time, he serolously damaged.

Necessary Conditions.

In order that the cooling system work properly, we must have the following conditions:
Plenty of water, free circulation of water throughout the entire system freedom from scale in the radiator and a strong current of all pussing continuously through the radiator of the continuously through the radiator of the continuously through the radiator and the radiator of the previous conditions are not being fulfilled. Usually we look at the fan first, as this is where the trouble most frequently occurs. See that the fan hearings are free and that the belt is table enough to drive the fan with very little slipping, also have the fan blades tipped at, the proper angle to draw the aft through the radiator.

While the fan beld must be (tight enough to turn the fan, care must be tight enough to turn the fan, care must be trained to truther of the winding of running. Next see that there'is plenty of water in the radiator; feel of the rubber hose connections to see whether they feel fableby. If they are, soft, it is very likely that the inner wills of the hose have softened and prinaps entirely fled the opening so that the water cannot dow through.

#### You Auto Know

You Auto Know

That the carburetor strainer should be cleaned and drained required in order that the first can pass into the carburetor in the carburetor in the carburetor is the carburetor is repeated by the carburetor is renearly due to the presence of some tiny bit of difft which has passed the strainer and which, like a morsel of food swallowed the wrong way, 'interfers with the breathing, Even the smallest particle of foreign matted in the needle valve or the intuke ways of the vapories will cause the engine to splutter and spit and is seldom that and spit and is seldom that and in the carburetor for the vapories will cause the engine to splutter and spit and is seldom that and in the carburetor for the vapories will cause the engine to splutter and spit and the carburetor for the straining of gasuline through wire gaure or a piece of chamols does not do nays with the danger from fouling the carburtor, for a considerable amount of sediment always accumulates in the gasoline this, and this will be carried forward to the carburetor. For this reason, the strainer itself should be thoroughly cleaned, in order to insure the proper function of the "lungs of the car."

(Copyright, 1932, by The, Wheeler Syndiest, Inc.)

tion and wear result. If the majority of the motorists realized that such conditions can be very largely over-come by using a quality oil at a high-er initial cost, a great deal of trouble with most automobiles would be elim-inated.

## Seen In "The Fall of Pompeii"



#### The Gladys Hight Ballet Groupe in the Serpent Dance of the Egyptian Priestesses Sefore Arbaces, At "The Awakening", July 24-Aug. 5.

Priestesses Before Arbaces, At "The Awakening", July 24-Aug. 5.

Interpretative danck by the Gladys
A complete circus composed of the High Ballet Groupe & the Chicago
Opera Co. form one of the high spots in the dramatic sect in of the pryotechnic classic "The Last Days of the Markening", Shadukhum Octube wonder
Opera Co. form one of the high spots in the dramatic sect in of the pryotechnic classic "The Last Days of the pryotechnic classic "The Awakpaning." Shadukhum Octube wonder
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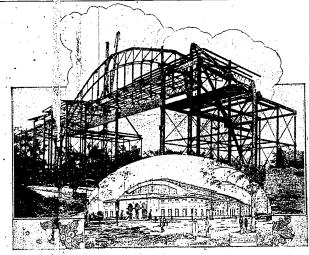
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## New Michigan State Fair Coliseum



In this new \$300,000 building, now under construction on the Michigan State Fair grounds at the northern burskirts of Detroit, the borse show and historical pageant at the exposition, \$\frac{1}{2}\text{ptember 1 to 10, will be staged.}\$ The building is of reinforced concrete and steel construction and is rapidly nearing completion as this picture indicates.

#### TEMPERATURE 13 IMPORTANT

Below Boiling Point of Wate Prevents Condination and Excessive Wear.

To get the greate t efficiency from a monorfund at the same time with maximum economy. It should be be reated at a temperature point a little below the bolling not 't of water. This prevents condonantie' of rasoline, had results from cold o, and excessive wear to miotor parts have not had the opportunity to expand properly. In other words, hot motor parts fit. And the motor should reach the profer temperature point as quickly as possible. For this reason raid, or shutters and a motormeter are should equipment on some cars. They insure long life and continued satisfactory performance.

### AV TOMOBILE **MACIVITION**

Tighten the fan belt.

Test the wheels for wobbling. Examine cylinders for carbon.

See that every melting part is well offed and greased.
Check up on tires and see that they are in proper condit!
If you, have not a tready done so, clean out the cooling system.

Care should be ext clsed not to use hard water in the colling system.

#### NEW PEDAL CONTROL ON ELECTRIC AUTO IS EXHIBITED IN NEW YORK



Alss Helen Heffernan is shown in the photograph demonstrating the new pedal control on the latest thing in electric coapes. Note the round beel pedal close to the seut. By shifting from the forward control, on which he foot is placed, to the heel pedal she can reverse at once, with no danger of stripping gears.