

COOL RADIATORS IN HOT WEATHER

Common Summer Troubles Usually Due to a Lack of Forethought.

Most motor drivers find difficulty in keeping their radiators reasonably cool in the sweltering days of July and August. Service stations, in town and city, are practically filled, some days, with these panting iron corses with heat afflicted "innards." Overheating and other common hot weather troubles are usually due to mistakes that can be easily avoided. The main points which require attention are briefly outlined below.

Do you understand the motor's cooling system thoroughly? If not, now is the time to go over it carefully and find out all there is to know about it. See that the flow of water is not impeded by any sort of obstruction and that the overflow pipe is not bent below the level of the base of the radiator filler. Be sure that the overflow pipe is not clogged or flattened.

Clean Radiator.

Is the radiator clean? The front of the radiator should be free from dirt, license plates and signs. Also, the back of the radiator should be unobstructed so that nothing will impede the circulation of the air.

Does the fan turn freely and is the belt tension right? The fan should be clean and its bearings should be well greased. A good test is to turn the fan by hand with the engine shut off. If it is possible to slip the belt easily, but not possible to spin the fan, the tension is right.

Is the carburetor choke in proper repair so that it opens all the way? Better open the seasonal shutter on the hot-air tube. Is the float level correct? If too high slight flooding will cause an over-rich mixture.

Does the ignition system furnish a spark of sufficient strength? A weak spark due to excessive lubrication of the magneto, dirty breaker or distributor, or weak magnets, will have an effect similar to late spark timing and overheating will result.

Are the valve tappets properly adjusted? They should have from .008 to .010 inch clearance, which may be gauged by about the thickness of an ordinary postcard.

Are the cylinders free from carbon? If not, remove it.

Oil Reservoir.

Is the oil in the crankcase clean? Gasoline, dirt or other foreign substances will impair the quality of the oil in the crankcase, resulting in overheated parts due to insufficient lubrication. The oil reservoir should be drained every 1,500 miles, the walls thoroughly cleaned and a fresh supply of oil should then be put into the crankcase.

Are you using the right grade of oil? Because of the increased temperatures it is often advisable in summer to use a heavier grade of oil than in winter.

Are the exhaust pipe and muffler clean? Practically 40 per cent of the heat of combustion escapes through the exhaust. It follows, therefore, that if any part of the exhaust system is obstructed a part of this heat must be carried off by the cooling water, which will naturally raise its temperature.

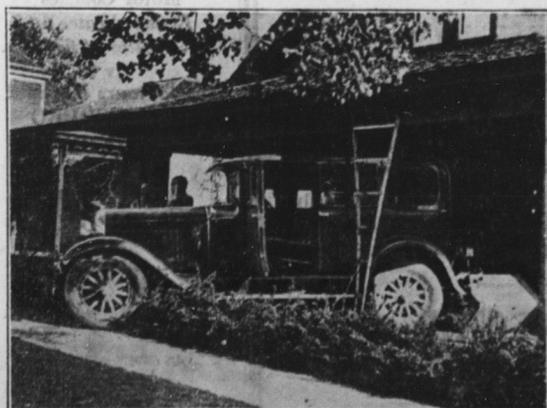
Are the brakes free? A dragging brake will cause overheating in hot weather that might not occur in cool weather.

Three Conditions Cause Gasoline Preignition

Preignition of the gasoline charge in the cylinder is something that the motorist may find more prevalent as the compression ratio of the engine is raised. Usually, one of three things is responsible for this condition which results in a diminution of engine power.

These are exceptionally hot exhaust valves, high temperature of the spark plug electrodes, or a bit of incandescent carbon on the cylinder head or the piston. Knowledge of the causes should facilitate the elimination of the trouble.

OBJECT LESSON IN AUTOMOBILE SAFETY



This picture graphically illustrates the danger of motorists parking their machines without locking. In this case the driver parked on a steep incline at Missouri Valley, Iowa, but failed to set the brake. An inquisitive little boy climbed into the driver's seat and let out the clutch with the result you see here. Fortunately he jumped before the collision.

THE MOTOR QUIZ

(How Many Can You Answer?)

Q.—What should be done when difficulty is encountered in shifting gears?

Ans.—Engage the clutch a few seconds while the engine is running, then disengage it and try again.

Q.—What should be the position of the left foot when driving?

Ans.—Not on the clutch. On the floor.

Q.—Will a clogged oil filter result in damage to the engine?

Ans.—No. The filter merely ceases to function and the oil is by-passed. Unless the filter is renewed after 10,000 miles it becomes necessary to change the oil every 500 miles, as against 2,000 with the filter in proper shape.

Q.—What causes a dirty bulb to burn out more rapidly than a clean one?

Ans.—The dirt prevents the radiation of heat as fast as is necessary, thereby shortening the life of the bulb.

Traffic Policeman "Lit Up Like Christmas Tree"

Motorcycle Policeman W. A. Schotter of police traffic bureau here, is shown "lit up like a Christmas tree" with a red light on shoulder strap and



Signals for Night Work.

green light on arm band as he tested human traffic signals for night work. The traffic innovation is said to be a great success.

Much Care Is Required in Adjustment of Plugs

Simple as it may seem, the job of adjusting the points of spark plugs is something requiring considerable care. The center point should never be bent. Adjust for proper clearance with the point that is connected to the grounded part of the plug.

A good average adjustment is a clearance the thickness of a thin dime, but a dime is not a handy tool to bend the longer point if the clearances are not just right. Not having a plug gauge, the next best thing is to use the blunt side of a thin penknife blade. Use it as a small lever to press the point the way you want it to go.

AUTOMOBILE HINTS

Pedestrians should be seen and not hurt.

The annual production of light trucks in the United States increased 45,000 since 1925.

In a race to the crossing, between a locomotive and an automobile, there is no such thing as a tie.

A British woman, aged ninety, learned to drive an automobile in one half-hour lesson. Most women drive that way.

Tweed Likely to Be Fall Favorite

Paris Promises Continuation of Popularity of Mixed Fabric.

Hints of autumn fashions in the latest models shown in Paris point to a bigger vogue than ever for brown and white tweed mixtures. Many designers show brown tweed to the exclusion of almost every other material for advance autumn utility coats.

The majority of tweed coats have accompanying tweed skirts. Some



Tweed Coat of Brown Flecked With White and Orange.

houses show lightweight tweed dresses under coats of the same material.

Black and white wool mixtures are next to brown tweeds in the advance showings. There are many suits of coarse black and white, and white and dark blue mixtures.

The same colorings are featured for coat and skirt ensembles. Dark red and white tweed mixtures also figure in the fall fashions.

Signs point to "dressmaker millinery" with the tweed ensembles of next autumn. Small draped hats of the same material as the costume, and cloth sport hats with stitched brims are expected to play a prominent part in autumn millinery.

Handbags of matching tweed are now almost commonplace with tweed ensembles.

What You Should Know About Yellows and Reds

Chartreuse is a yellowish green named after a liqueur made by Carthusian monks.

Citron has nothing to do with our citron, but means "lemon" in French. It is correctly the clear yellow of a fairly ripe lemon.

Maize is the color of ripe Indian corn.

Paille is straw color—paille meaning "straw" in French.

Saffron is the color of the stigmas of the crocus flower.

Orange is of course the color of the fruit. It is to red and yellow what purple is to red and blue. Typical yellow is just half way between pure red and pure blue in the spectrum.

Chinese red and lacquer red are the same. It is a clear, lovely red with an orange cast. Much Chinese and Japanese lacquer is of this color.

Scarlet is a bright red that inclines neither to the violets nor the oranges. It is the reddest of all reds.

Crimson is a bright red with a purplish cast.

Cardinal is a bright red midway between crimson and scarlet.

Carmine also inclines toward the purplish cast. It is not so bright as crimson.

Italian pink is named after color used in tinting walls in Italian halls and houses.

Venetian is a slightly orange red named after the color of Venetian sail cloth.

Straw Hats Prominent in Season's Fashions

Hats with off-the-face brims, hats of a cloche shape, shading the face charmingly; hats with brims draped, oh, so sophisticatedly; such are the modes with us.

Just as it promises to be a wash fabric season, so it promises to be one of straw where hats are concerned. Baku, ballibuntl and Paris meme, as well as various hair braids and crocheted weaves, are favored. Ballibuntl comes from the Orient, so 'tis said, where it is woven by the clever hands of the natives from fine grasses. Paris meme is a weave new to the season.

One of the outstanding features of millinery is the use of insets of straw or edges of lacy straw in combination with baku. The long back and width at the sides is a favored mode both for straw and felt. Colors are gay, many reds being featured, while black as always is in vogue.

On Rearing Children from CRIB to COLLEGE

Compiled by the Editors of "CHILDREN, The Magazine for PARENTS"

Back in the "good old days" when woman's time meant nothing, and domestic wages—from the point of view of the employer—were delightfully low, either one had a "nurse" who spent most of her time washing the children's clothes or one employed a hired laundress for as many days weekly as one pleased. In the year of grace 1923, the domestic helper is not so readily obtainable, and the more usual solution of the ever-present problem of the family washing is the installation of such practical assistance as will meet the practical demands.

Sun suits may be made at home by the clever seamstress from linen, cotton, gabardine, sponge and other rather heavy fabrics in the washable group. Wool jersey is a good material for the trunks and for a jumper if a sudden change brings cold winds in the mountains or at the seashore.

Children pay far less attention to our words than they do to our tone of voice and the facial expressions and the bodily tensions by which we express our emotions. If we have repressions about sex we will show it in many ways. If it is a terrifically disturbing topic to us our children will know it, not from what we say, but from the way in which we say it. Our children are bound to get sex information. The question which concerns parents is whether they can give them wholesome instruction about sex or whether they are to be left to pick up information of any kind anywhere.

The infant's play represents sensory and motor experimentation. His eyes are beginning to focus and his fingers to recognize and differentiate objects and their qualities. He will be attracted to toys that attract eye and ear or that please the sense of touch and that simulate closer investigation.

The normal healthy child clutches eagerly at every moment of the vacation. Here at last he is to have a chance to do just the things that he wants to do all day long, and the things that he wants to do are usually the things in which he excels. But his parents, if they, too, are normal, healthy parents, see vacation in a somewhat different light. They reach out into that precious free time of vacation and just as eagerly seize an hour here, a half hour there, and set these apart as periods in which each child can develop those sides of his nature in which he is deficient.

In allowing children some choice about their clothes we must remember that children have a very keen sense of touch, far more keen than that of an adult. They are therefore very sensitive to the feel of fabrics. So materials that seem attractive, even elegant to us, such as good tweeds, are rough and harsh and distinctly unpleasant to them. One can't, of course, be guided wholly by children's preferences but they are so real that we might respect an intense dislike for a thing.

"My own generation and the generation which immediately preceded mine were, I think, very frequently the victims of misplaced tenderness, of ignorance, and often of cruelty, and brutality disguised as something pretty or virtuous or dutiful," says Louis Bromfield, the novelist, in an article appearing in *Children, the Parents' Magazine*. "There is a sad phrase used to children: it is 'for your own good, my dear.' A great deal of cruelty is practiced beneath the cover of that phrase."

Gayly Bordered Scarf Worn With Silk Frock



Showing a lovely printed silk frock trimmed with a brightly bordered scarf. The bodice is tight-fitting and the skirt circular. A black and white hat belongs to this costume.

Long List of Indian Tribes Now a Memory

The disappearance of Indian tribes which at no very remote period in American history held positions of strength and tribal influence in the Middle West and on the great plains has puzzled students of Indian legends and traditions and not infrequently even the Indian bureau.

It is a curious feature of this disappearance that the names of many of the lost tribes are preserved alone in the names which the white man has given to his cities and towns and to distinctive points in the scenery of the country which he has occupied. Natchez is an instance of this nomenclature in the Mississippi valley, Waco in Texas, Kichai in Kansas and Mobile on the Gulf of Mexico. It was due to the desire of these towns to trace the first stages of their civic history that research was made for remnants of the tribes which were the earliest of their inhabitants.

An Oklahoma authority on Indian history, George Rainey, has made this phase of tribal life a study for several years. He discovered that the once powerful Tonkawa tribe of central Texas has at present only 26 members. The white men's report show that at the beginning of the last century they numbered about 4,000. This tribe seems always to have borne a bad reputation among both Indians and whites; against them was made the accusation of cannibalism, extremely unusual in regard to the red race. Their practical extinction was due less to their troubles with the whites than to their constant strife with neighboring tribes. Their name is preserved in an Oklahoma town.

The Kichais, who gave their name to a small town near Wichita, Kan., were a smaller tribe, but they were generally recognized as a people friendly to the white settlers. They were swept away, it is believed, in a plague in the middle of the last century. Of the Mobilians there remain few traditions. They were said to have been an industrious people who made pottery for neighboring tribes and who seldom were at war. At the beginning of the last century a few representatives lived in the neighborhood of Mobile, but shortly afterward they entirely passed out of existence. The history of another Gulf tribe, the Biloxi, seems as obscure as that of the Mobilians, although it is believed that early in this century a remnant of the tribe, about twelve in number, was living in the depths of the Louisiana swamps. The Waco Indians, whose lands were partly built over in laying out the Texas town of Waco and the county of which it is the capital, fared somewhat better than the Tonkawas, a kindred tribe. They were greatly reduced in number when they were removed to a reservation in Oklahoma. The most tragic tribal history was that of the Natchez. They were at war with the French authorities of Louisiana for years when in a final struggle to hold their village at the present site of Natchez they were taken in a surprise attack. A remnant of the tribe escaped to a Mississippi river island, but they were traced by the French soldiers, captured and sold into slavery in the West Indies. Of a tribe that once numbered hundreds there remained in America after the French attack not more than the score who had sought a refuge among the Cherokees and Choctaws.—New York Sun.

Proper Response

Little John, not yet two years old, was sitting in his go-cart, having been taken by his mother to the grocery, when a friendly shopper presented him with a cookie. His vocabulary consists only of detached words, but as "Thank you" is among them, his hopeful mother prompted him: "What do you say to the nice lady, John?" Clutching the cookie in his plump fist he gurgled "More!"

Practicing Up

"Why do you keep riding up and down on the elevator, madam?" "My son insists that I must fly with him, and I am trying to get used to the high altitudes."



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"A Little Cocky"

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