Care of Battery Is Important Item To Every Motor Car Owner and, if weather conditions demanded

The starting and lighting battery of the modern automobile is, because of its construction and performance, a much abused and neglected piece of apparatus. It is but partly understood even by many electrical experts, for to understand it thoroughly requires a study of chemistry as well as electricity.

The active parts of the battery are made chiefly of lead, lead oxide, water and sulphuric acid. Here we have liquids as well as solids which pro-

entire life, which is from 12 to 18 serves at laest a little care. months.

What Battery Must Do Many are misled by the extrava- crank your car by hand, you would

from two to four years' service from tion rather than the rule. The batlighters, hand warmer on the steering | motor. wheel, gasoline vaporizers, windshield shifting and for the brakes.

An average battery which measures life out of your battery. fifteen and five-eighths inches long, duce electricity by changes in their seven and three-eighths inches wide composition resulting in complicated and nine and one-eighth inches high chemical as well as electrical actions. and weighs 64 pounds, can deliver at from 4 to 15 amperes so you can The average motorist gives little enough energy to raise itself to a figure out how many miles of driving thought to the care of his battery as height of six miles straight up in the is required to put the generator back long as it performs its duties, and he air. It must be able to do its work into your battery what you take out is unable to understand why it should quickly at all times, in all kinds of of it on one starting. Cars used in not perform indefinitely. A battery weather with temperatures ranging the city are more severe on batteries that is used properly should never re- from below zero to 100 degrees fah- on account of the numerous starts quire removal from the car during its renheit. Such a faithful servant de- and the short drives.

Why Motorist is Careless

first make sure the ignition switch was on, spark and gas control levers in proper position, gears in neutral it, that the priming or choking device gant claims of some of the manufac- on the carburetor was being used to turers into believing they should get the best advantage before you attempted to turn the motor over. Betheir batteries. Such is the excep- cause it is so easy to step on the starter button and turn the engine tery is called upon to give a much over much faster than it could be more severe service than any other turned by hand, the above order is part of the car. It must furnish usually reversed and the starter is power to crank the engine, light the allowed to grind away while preparalamps, the ignition, the horn, cigar tions are being made to start the

If your motor will not start after wipers, stop light, and even for gear | turning over for 10 or 15 seconds, find out why. It is useless to grind the

The average car requires from 15 to 300 amperes of current to turn the motor over. Your generator charges

Works Hardest in Winter In the winter when an engine is If it were necessary for you to cold and stiff the work required from (Continued on page 17)

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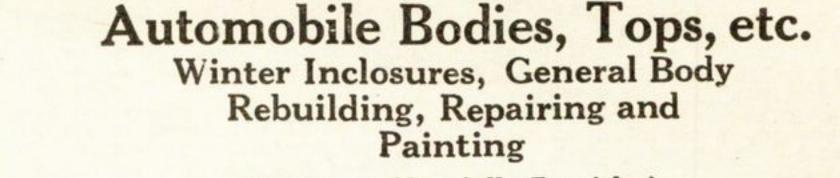
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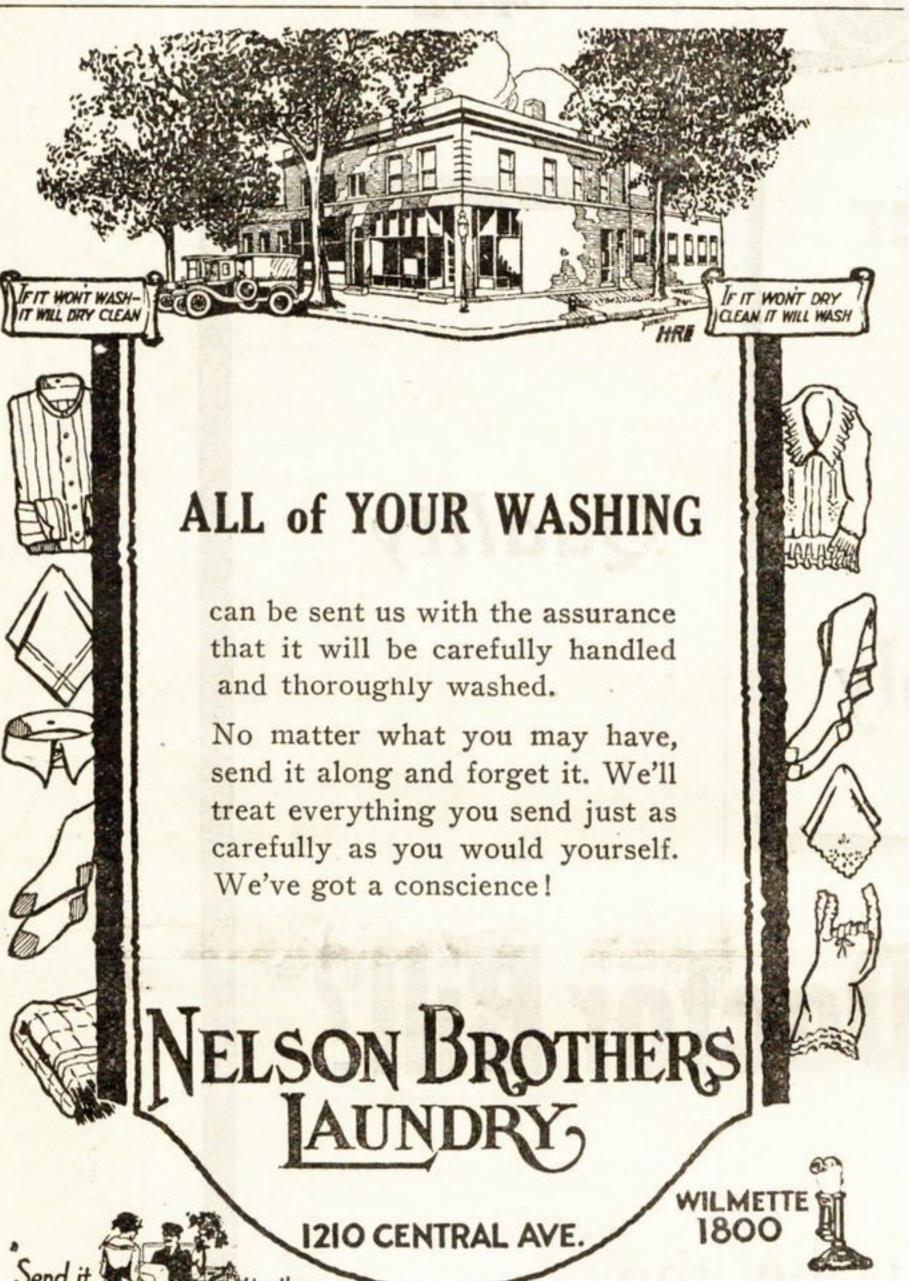
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