# MUFFLER IS NOT WATCHED CLOSE

Cleaning Up Process Is Overlooked or Delayed Until Openings Become Clogged.

### INCREASES USE OF GASOLINE

Very Important Part of Automobile Is Located Under Car and Out of Sight, and Is Rarely Given Attention Needed.

One of the parts of an automobile attention procrastinates and thinks perhaps he will fix it up tomorrow. And tomorrow never comes. But today is always here with its greater use of gasoline and various other complications that a dirty muffler causes.

The muffler is located under the car, and being out of sight is usually out of mind. It is therefore often neglected or misused. And yet it ought not to be. The muffler is placed on the end of the exhaust pipe of the engine so that the driver of an automobile while taking pleasure himself does not wholly deprive others of it.

Let us consider the use of the mufthe burned gas is still under a pressure of from 25 to 30 pounds per tion, square inch. If this were exhausted directly into the air the resulting noise would stifle conversation in the and quickly get the driver into trouble with the police. The muffler prevents all this. It provides a chamber in which these exhaust gases may expand and cool somewhat and at the same time breaks up the pressure by allowing it to leak out slowly through a number of very small holes, instead of letting it loose in one "big noise."

### The "Cut-Out" Valve.

In the early history of the automobile mufflers were not used and everynuisance and was stopped by law. Then they sought, indeed had been seeking, a means of stifling the sound. In the early muffler there was trouble because the gas would back up in the cylinder and decrease the power of the motor. It was thought there was no way to decrease the sound without decreasing the power; therefore the manufacturers devised a valve to "cut out" the muffler on the car whenever extra power was desired.

Sometimes the back pressure was so through heavy roads or up hills. The into the air instead of going through

The average driver does not know quality. that his muffler needs as careful attention as any other part of the mechanism, and so he neglects it. In these days of noiseless cars it requires a great number of very small holes inside muffler. These become clogged with soot or carbon from the exhaust The deposit collects very rapidly. especially when the grade of oil used is poor or too much oil is used. It also results when the carburetor is

### adjusted to give too rich a mixture. Openings Become Clogged.

When these small openings become clogged the exhaust gases cannot escape readily, and naturally the cylinder of the engine is not cleaned at the exhaust stroke. Result: It is impossible to bring in a full cylinder of new gas on the next intake stroke. There is not a full charge to explode, and this means a loss of power to the Cases are known where the throttle

was opened wide without any increase in power. Trying to find out what the matter was, the driver opened the "cut out" and this caused the machine to accelerate very rapidly.

No autoist has pushed the engine and train off the track yet.

FORD CAR HAS

Meet Public Approval

The Ford Motor Company, Detroit, has just made public a list of recent improvements in th e mechanical features of Ford cars.

Ford pistons and connecting rods most neglected by many owners and have been re-designed and are matchdrivers is the muffler. As a boy with ed for weight before assembling into a dirty face puts off the cleaning up motors. This reduces vibration and process just as long as possible, so gives the motor a quicker pick-up. the motorist with a muffler that needs The new pistons weigh three-quarters of a pound less than those formerly used. A highly polished crank shaft bearing surface also reduces wear and, added to the piston and connecting rod improvements, insures a smoother-running and better balanced motor. The material used in the Ford crankshaft and the care and precision in its manufacture make it second to

The new Ford carburetor gives increased acceleration. Though not twice a year with sal soda. radically different from the carburetor previously used, the new construction improves the all-around perform- by oil, and at the same time it has a fler. The exhaust valve opens while ance of the motor, giving it a quicker most unfortunate capillary affinity for pickup and a greater flexibility of ac- the oll.

The wiring system has been completely re-designed, and while it costs more to install than the old system, car, annoy everybody along the street is most efficient, proof of which is evidenced by the fact that it affords a fire insurance rate as law as the higher priced cars on the market.

Many other changes have been made: A 16 inch steering wheel is now standard equipment; Timken roller bearings are used in the front oil and gasoline, wheels: one-piece pressed steel runningboard brackets insure body rigidity and eliminate vibration and body noises; a dash weathertrough prevents rain from reaching coil termibody for blocks around knew when an nals or dash wiring; the steering meauto was coming. As the automobiles chanism has also been improved; and increased in number this became a the tools supplied to purchasers of Ford cars have also been improved in quality. Another important improvement in the truck chassis is the adoption of cord tires as standard equipment on the rear wheels,

The change made some time ago in the seating arrangement of the Touring Car has met with widespread approval. By lowering the seats and altering the seat backs, greater com-

It is pointed out that retail sales of great as to interfere when driving a million cars adn trucks yearly, and Co., \$155.28; Clackamas County Auto Lewis, \$3.00; David Nelson, \$4.00; "cut out" let the gas exhaust directly products at a cost of approximately one million dollars a day makes it the muffler. At the present time near- possible to sell Fords at their present ly every city has a law prohibiting the low prices and at the same time to produce a car of exceptionally high

### TO MAKE RAIN VISOR FOR ANY AUTOMOBILE

and Is Great Help in Stormy Weather-When Enameled Suitably It Is Not Con-

shield the view of the road is unincreased. Windshield cleaners are good, but they keep one working. This visor has been devised to pre-

MANY REFINEMENTS

Body and Mechanical Improvements

Asserting that Ford cars are better today than they ever have been before, the statement adds that fuel consumption is lower; the engine is even more efflicent than formerly, improvements in the springs and steering apparatus insure easier riding and driving qualities; a new all state laws, improves the road light; and that many other minor betterments have been made.

fort was added.

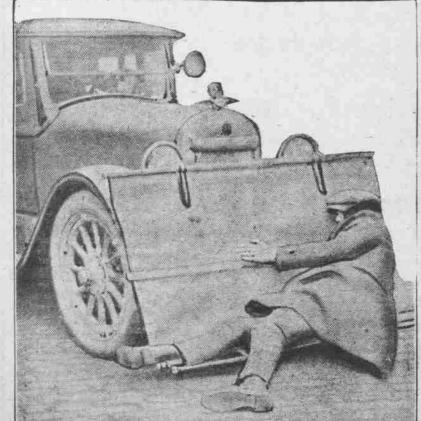
Tin Device Prevents Fogging of Driver's Vision.

spicuous.

When it rains against the wind-



### NEW LIFE SAVER FOR AUTOMOBILES



The latest thing in bumpers is the new life saver for automobiles. The inventors are Charles Bearly, 11001 Wentworth avenue, Chris Hansen, 11254 South Michigan avenue and William Hasen, 11343 Forest avenue, Chicago, and they are very confident of their invention. Here you see the "fender" in prac-

Attached to the top of your automobile, this tin visor prevents rain or snow from fogging your vision.

glass at all and is a great help to drivers in stormy weather. As most automobilists keep their tops up during winter, it can be fastened permanently in place, for that season at least.

Cut out a piece of sheet tin the desired length and so it can be bent about as shown in the perspective of the windshield edge of the visor, and should be punched with several holes so that it can be tacked to the inside of the front bow of the top.

Make it just low enough so that it will ward off the snow or rain, but not too low to prevent the driver from watching the road. Be sure the side headlamp lens, which complies with shields come as close as possible to the glass without touching, as they will help to keep drafts from sucking in the snow or rain at the sides.

When enameled a suitable color to match the car, it will not be unbe coming or conspicuous in the least. -Popular Science Monthly.

### AUTOMOBILE # GOSSIP

Under-inflation and over-loading account for most tire trouble.

A not infrequent cause of hard starting is over-richness of the mixture.

Clogging of the cooling system may be prevented by cleaning it at least

Rubber is very quickly disintegrated

A new owner of an automobile, when searching for trouble, often creates more than he finds.

The metal surfaces of the wheel spindle should be greased when making a change of wire wheels.

Poor compression is the cause of an engine using an excessive amount of

### The County Court

(Continued from page eight) lustrial Accident Commission, \$215.

05; Feenaughty Machinery Co., \$77. 00; Oregon City Foundry, \$2.00; The Estacada Sales Co., \$475.40; J. D. |\$90.00. Caldwell Co., \$100.80; Howard-Cooper Corporation, \$86.97; W. Waldorf, \$23.-75; A. O. Meinig, \$300.00; Harvey Gibson, \$3.00; Roy Ridings, \$3.00; Standard Oil Company, \$398.84; Reddaway Truck Line, \$2.50; Wilsonville Ferry, \$100.00; Carlton & Rosenkrans, Co. \$13.55; Pacific Highway Garage, \$20.18; The Daily Record-Abstract, \$5.10; Portland Ry. Light & Power Company, \$7.85.

DISTRICT No. 11-Myron E. Dunn J. Holgate, \$6.00; Ed Fortune, \$55.10. and wife, \$400.00; Anna M. Simpson, \$100.00; Thos. F. Ryan, Trustee, \$1. Dr. H. L. Babb, \$5.00; O. A. Pace, \$41. 00; Robert Patton, \$20.00; J. N. Pear. 00; O. A. Welsh, \$10.00; Dr. Ross Eatcy, \$1.00; The Oregon Iron & Steel on, \$5.00; Dr. W. E. Hempstead, \$5.00;

GENERAL ROADS-Edward Rose Kilgallon, \$50.00; Erickson & Co., \$1 .-20; Portland Railway, Light and Power Company, \$25.20; Hogg Bros., \$124. nell, \$78.36; J. W. Miles, \$15.00; Paul 19; Abe Gilbert, \$207.59; A. C. Scheer, \$65.76; Walter Harvey, \$65.38; S. A. Mead, \$2.99; S. Nash, \$17.45; Albert Scheer, \$68.90; L. W. Davies, \$86.27; Elements Kept From Striking Glass T. C. Thomas, \$89.26; Eldon Swick, \$76.32; Walter J. Henrice, \$43.89; C. A. Wallace, \$38.16; H. Elligscon, \$13.-96; H. Fisher, \$13.47; C. A. Wallace, \$20.20; Roy Dent, \$13.96; Alvin Heft, \$20.94; John Heft, \$20.97; Claude Henerici, \$6.98; L. F. Rambo, \$13.96; H. Ellingson, \$10.47; Bert Wallace, certain and chances of accident are \$17.45; John Heft, \$6.99; Alnion Heft, \$3.49; H. Ellingson, \$3.49; L. T. Rambo, \$3.49; Bert Wallace, \$3.49; Roy Dent, \$3.49; O. Striker, \$39.92; Dick \$29.95. Striker, \$39.92; Herman Fisher, \$26. 94; J. Margeson, \$35.92; H. Henrici, \$94.81; C. Henrici, \$58.44; Parkplace Garage, \$7.28; Frank Busch & Sons, \$4.75; Standard Oil Company, \$26.22; Howard-Cooper Corporation, \$3.70; East Side Mill & Lumber Company, \$473.95; A. H. Averill Machinery Company, \$46.00; J. S. Fisher, \$5.38; John Heft, \$2.22; Charley Stenstrom, \$21.-00; Stewart Mitchell, \$20.13; Dix Brothers, \$10.45; Willamette Harris, \$53.-10; Larkins & Son, \$80.22; August Martin, \$10.00; C. L. Garinger, \$40.00; Charley Biggins, \$6.00; Edd Douglass & Co., \$20.00; Hogg Brothers, \$177.50; John Heft, \$76.89; Roy Dent, \$34.90; H. Ellingson, \$20.94; Alvion, Heft, \$38.39; L. F. Rambo, \$27.92; Herbert Ives, \$10.47; Roy Dent, \$6.98; Alvion Heft, \$6.98; John Heft, \$6.99; Claude Henerice, \$6.98; L. F. Rambo, \$3.49; John Heft, \$76.89; Alvion Heft, \$20. 94; R. Dent, \$20.94; Claude Henerici, \$13.96; L. F. Rambo, \$17.45; H. Ellingson, \$3.49; Bert Wallace, \$20.94; F. Bluhm, \$26.94; J. H. Margeson, \$6.-98; Wm. Braatz, \$9.73; A. E. Johnson, \$4.98; Emiel Larson, \$8.74; Howard George, \$9.98; Linn Hulet, \$4.98; R. W. Zimmerman, \$8.47; F. E. Mills,

MARKET ROAD No. 1-D. T. Meldrum, \$10.05; D. R. Dimick, \$12.47; J. W. Garrett, \$28.82; W. S. Gorbitt, \$34.90; R. Clark, \$7.49; Delbirt Fisher, \$14.93; P. E. Boney \$11.20; George Anderson, \$14.94; George Williams \$4.99; John Anderson, \$1.24; H. Comer, \$3.73; D. Countraman, \$2.49.

MARKET ROAD No. 2-Willamette Equipment Co., \$65.00; Paul R. Mei-\$195.12; Road Biulders' Equipment Co., \$110.25; John A. Roebling's Sons Co., \$16.16; Hogg Bros. \$30.50; D. T. Meldrum, \$11.25; The Daily Record-Abstract, \$5.70; H. H. Udell, \$83.-33; H. R. Devlin, \$21.16; A. W. Anderson, \$27.39; Herbert Udell, \$31.12; J. M. Parks, \$26.14; Harold Parks, \$24.90; John Affolter, \$14.97; Ray Hanson, \$42.41; William Hanson, \$21.-16; Frank Miller, \$21.16; Geo. Allgeier, \$21.16; M. L. Berdigan, 87.47.

MARKET ROAD No. 4-Frank Busch & Sons, \$2.80; Willamette Truck Service, \$2.00; Buffalo Roller, Sales Co., \$29.80; Larsen & Company, \$2.10; V. C. Jackson, \$41.25; D. T. Meldrum, \$6.25; A. W. Borland, \$17.46; A. H. Borland, \$15.93; Henry Koch, \$54.89; H. M. Borland, \$19.96; John Raicy, \$53.88; R. C. Paine, \$13.47; Loid Borland, \$9.98; F. Whitten, \$48.65.

MARKET ROAD No. 5-Hogg Bros. \$27.00; D. T. Meldrum, \$9.85; E. L. Palfrey, \$1995; J. Streitmatter, \$10.-57; Gus Simmons, \$10.57; D. H. Rams by, \$14.95; Pringle Shaw, \$11.21.

MARKET ROAD No. 6-Road Build ers' Equipment Co., \$36.50; D. T. Meldrum, \$6.25; A. A. Wood, \$16.22.

MARKET ROAD No. 7-D. T. Meldrum, \$13.75; J. W. Miles, \$17.10; Geo. Pennell, \$26.12; The Daily Record-Abstract, \$4.50; Geo. Forman, \$53.59; Frank Tiffney, \$24.27; M. Johnson \$17.72; W. Tole, \$2.49; L. L. Lake, \$2.49; J. W. Miles, \$39.18; Cecil Wells, \$9.98; G. D. Hammond, \$9.98; W. H. Rambo \$24.95; Lawrence Hull, \$16.96; Chas. Simmons, \$3.84.

MARKET ROAD No. 8-A. Mather. \$62.20; D. T. Meldrum, \$6.25; E. Hinkle, \$5.00; Geo. Pennell, \$32.65; Wm. Braatz, \$13.96; Allison Allen, \$2.49. ELECTION-Beattie & Hofman,

Inc., \$7.00; Fred A. Miller, \$15.00. SHERIFF-C. G. Miller Co., \$.50; The Western Union Telegraph Company, \$1.57; T. M. Hurlburt, \$.50; C. H. Elston, \$4.00; L. A. Rall, \$5.00; Wm. J. Wilson, \$4.00; Banner-Courier \$118.00; Oregon City Enterprise, \$1.-50: J. C. Loundree, \$7.50.

CLERK-Frank Busch & Sons, \$1. 0; Banner-Courier, \$182.00; Jones Drug Company, \$1.95; Huntley-Draper Drug Co., \$140.00; Oregon City Enterprose, \$143.10; Fred A. Miller, \$13.80; Banner-Courier, \$84.95.

RECORDER-County \$12.00; Oregon City Enterprise, \$521. TREASURER - Banner-Courier, \$161.35; County Treasurer, \$10.00. ASSESSOR-Huntley-Draper Drug Co., \$2.20; W. B. Cook; \$7.05; Banner-Courier, \$4.75; Oregon City Enter-

prise, \$1140.90. COUNTY COURT-Huntley-Draper Drug Co., \$1.50; H. E. Cross, \$10.00; W. A. Proctor, \$65.00; W. F. Harris,

COURT HOUSE-Board of Water Commissioners, \$16.00; Pacific Telephone and Telegraph Company, \$70 .-75; Estate Geo. C. Borwnell, \$40.00; J. W. Jones, \$9.00.

CIRCUIT COURT-Geo. Alexander, \$8.00; Sarah Bell Pratt, \$5.00 Rosey

Pratt. \$5.00. JUSTICE OF PEACE-J. Dean Butler, \$2.50; O. W. Barnett, \$2.40; C. A. the consumption of raw and finished the consumption of raw and fin Lbs. Co., \$32.90; H. E. Cross, \$10.00; A. Beck, \$3.00; W. A. Beck, \$3.00; J. Pacific Telephone and Telegraph P. Woodle, \$8.85; Oregon City Enterprise, \$10.60; E. J. Noble, \$112.60; N.

CORONER-E. A. Brady, \$43.00; Dr. Chas. Carey, \$10.00; Holman &

Pace, \$72.00. SURVEYOR-Hogg Bros., \$3.00; W. C. Cowgill, Jr., \$45,20; Geo. Pen-Dunn, \$7.00; A. M. Kirchem, \$5.60; A. W. Cooke, \$10.00; F. M. Townsend, \$10.00; Louie Funk, \$5.20; A. C. Thomas, \$7.00; D. T. Meldrum, \$31.60; G. D. Hammond, \$5.00; W. C. Cowgill, Jr., \$137.13; J. W. Miles, \$59.88; G. Hammond, \$84.84; Cecil Wells, \$29.94.

INSANE-C. H. Meissner, \$5.00; Dr. M. C. Strickland, \$10.00; Austin H. Huycke, \$5.00; Dr. W. Ross Eaton, \$5.00; Walter E. Hempstead, \$5.00. SUPERINTENDENT - Brenton Vedder, \$52.82; Huntley-Draper Drug Co., \$32.37; Park-Shepherd Motor Co.

BOARD OF HEALTH-Otis M Rich, \$37.50; Dr. O. A. Welsh, \$11.-70; Guy Elliott, \$7.00. CATTLE INDEMNITY-H. Paulson, \$68.95; Johanson Bros., \$50.00; Oscar Sporri, \$11.66.

INDIGENT SOLDIER-Mead Post No. 2, \$60.00 JAIL-C. G. Miller Co., \$1.20; Hogg Bros., \$24.30; Hogg Bros., \$4.50; W.

J. Wilson, \$142.17. JUVENILE COURT-Park Shepherd Motor Co., \$23.21; Minda E. Church, \$68.27; E. C. Lakin, \$3.00; Walter E. Hempstead, \$10.00; Jesse Keck, \$3.40; Clara C. Patterson, \$5.-

TAX REBATE-J. H. Dunn, \$38.52; Margaret L. Roberts, \$10.10. PRINTING & ADVERTISING -Banner-Courier, \$29.10; Oregon City Enterprise, \$30.25. SEALER-J. F. Jones, \$29.08.

MARKET ROAD No. 2-Estacada TAX DEPARTMENT-Jessie Pad- Jennie Paddock, (Co. charge), \$2.00; Telephone & Telegraph Company, \$2. | dock, \$22.10; Alice McKinnon, \$52.07; W. E. O'Donnell (W. L. Reynols), \$16-25; Paul R. Meinig, \$134.63; D. T. Veda Andrus, \$36.29; Gordon Wilson, 90; A. B. Buckles (Mrs. Berwick) Meldrum, \$11.05; Geo. Pennell, \$45. \$53.30; I. D. Taylor, \$79.20; Urcil War- \$20.00; 20th Century Grocery (Mrs. W. H. Douglass, \$10.48; Fred ren, \$123,95; Mattie Burkholter, \$138. Reynolds), \$10.00 (Mgda Olsen), \$12. Hoffmeister, \$2.49; Wm, Ingwood, \$1.- 96; M. Dion, \$104.27; Carlotta Pace, 00, (Shoeman) \$4.97. (Mrs. Reynolds) 24; P. C. Murphey, \$1.24; W. H. Daug- \$23.37; Helen Jones, \$10.00; W. J. \$15.00; (Mrs. Clara Cramer), \$10.00; Wilson \$45,00.

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DAMAGES-Earle C. Latourette, \$710.75;

COUNTY AGENT-E, A. Hugh, \$3 .-

POOR-Wm. Danforth, Boys' & Girls' Aid Society, \$10.00; Anna Wetterlin, \$10.00; Mrs. Sarah Solomon, \$15.00; Mrs. Elizabeth Saunders, \$5.00; Ella Tracy (Eunice Horner) \$10.00; Mrs. Lillian M. Johnson, \$15.00: Geo. H. Newsome, \$15.00: Ada La Baw, \$8.00; Katie Pluard, \$10.00; Hugh, (Mrs. Reynolds), \$7.00; W. G. Wallace R. Telford (Michael Boyles) \$12.00; John & Wm. Beers, \$20.00; Mary Lock, \$25.00; J. G. Wake, \$15. W. Hitchman (Ole Josendall, John Marris & August Johnson), \$75 .-00; Mrs. S. Beckman (Ben Munson), \$25.00; Ben Landis, \$20.00; Fred Wyder, \$12.00; Karl Buse (Albert Veisen), \$10.00; Maud Williams, \$20.00; Thos, I. Fredenburg, \$12.00; John Nieland, (James Seehorn), \$25.00; George Bolin, \$15.00; H. Sturdevant, \$30.00; Charles Krebs (Tony Miller), \$30.00; Mrs. J. E. Mumpower, (Matheson and Dick Myers), \$60.00; Hilda Granquist, \$25.00; Paul Schuman, \$25.00; Mrs.

**\*** 

# Be Sure You Know About Your Battery

No matter what kind of a car you drive or what kind of a battery there is on it you have to keep posted on certain battery facts.

You have to know whether your battery is charged to the proper point -whether it has enough water in it-whether each of the cells works properly.

Our most important job as a Battery Station is to tell you these things. It doesn't make a bit of difference what make your battery is. Here at Battery Headquarters we give every make exactly the same attention.

# Con. Hilgers

Battery Rebuilding and Repairing Twelfth and Main Oregon City, Ore.

> Representing Willard Storage **Batteries**

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Matt Waldkirch), \$27.80; J. C. Penny Co., (Doc Mosier), \$15.00; (Johnson), \$18.08; (Mrs. Ben Eby), \$7.70 (for Verney Neff and Rose Pratt); Jones Drug Company, \$13.60; Oregon City Hospital, (Ben Landis), \$2.00; (Jim Wilkins), \$12.00; (Andrew Nelson), \$40.00, (Sam E. Wright) \$47.00; Mrs. Mary F. Carothers (Mrs. Pennington). \$45.00; F. Madden & Co., (Mrs. Waldkirch), \$20.00; R. M. Cranor, (Clarence Cranor and family), \$5.00; W. H. Curtis, (O. W. Smith), \$1.00; E. A.

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work. Our complete equipment and skilled workers in this line enables us to repair practically every kind of a break in or on your car, especially such mishaps as bursted water jackets, cylinder heads, cracked cylin ders, broken frames and the And we can do it at nominal cost. ON THE HILL

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Is your car in order and are you ready to enjoy the good weather to come? Bring your car in and have our mechanics check up its condition. Expert mechanics with all of our repair work guaranteed.

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HARDWARE

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## Independent Service Station

OAK GROVE Associated Gasoline Cars, 26c

Trucks, 25c Western Oil, 20c per qt.

or 53c per gallon 10 gallons or over, at 40c Eastern Oil, 30c per qt.

or 90c per gallon Kerosene, 18c per gallon These Oils Are Absolutely

Guaranteed Cycol, 75c TUBES VULCANIZED, 25c

### SPRING IS HERE AT LAST!

Now is the time for garden work. Good garden tools purchased of

us will add to the pleasure of gardening LAWN MOWERS LAWN SPRINKLERS

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At Elevator

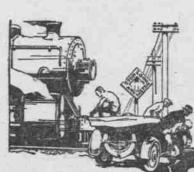
# AUTOMOBILE PAINTING

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At the foot of Singer Hill



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For if safety is not first it is not safety.

In choosing your repair mechanic as in driving it is well to look ahead, for after the work is done it's too late to regret that you didn't entrust your car to competent mechanics.

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