

Automobile, Truck, Tractor and Highway News of

Condition of Brakes Vital For Safety; Important Rules For Handling Car

Increasing traffic has impressed itself so firmly upon the minds of the people of the United States, in the form of accidents, that the National Safety Council was organized to watch over and protect those who each day risk the dangers of traffic congestion and operation.

So great is that body of persons that the task is universal. After exhaustive study of conditions, the National Safety Council has compiled rules, the study of which will benefit each and every automobile driver and pedestrian.

Sets May Be Obtained.
Complete sets of 12 safety bulletins and 12 safety lessons for automobile drivers, which are copyrighted by the National Safety Council, 148 N. Michigan avenue, Chicago, may be obtained from the council at prices ranging from 15 cents for single copies to 9 cents a set in large quantities.

Lesson No. 1 deals with automobile brakes and braking. It is as follows:

1. The brakes should be tested each day. Before getting half a block from the garage make a service test by throwing out the clutch and applying the brakes. If possible, select a dry spot for making this service test. Under no circumstances should the car be taken farther if the brakes are not operating properly. Drive back to the garage and see that the faults are corrected before driving out again.

2. Automobile brakes have a definite relation to safety. Important points are:

- a. See that a good type of brake lining is selected.
- b. Make sure that brake lining is properly installed.
- c. Keep the brakes in good operating condition.
- d. Make frequent tests for proper brake adjustment.
- e. Apply brakes properly when "on the road."

Brake Linings Are Important.
There are many types of brake linings on the market. Do not use linings that are too soft or too thick; such linings easily become matted and necessitate almost constant adjustment. Good linings are woven with plenty of asbestos; some also have fine copper wire woven in.

4. Only an experienced mechanic should install brake linings. He should be sure the lining is properly stretched to avoid wrinkling. The rivets should be properly countersunk; otherwise the metal of the rivets will score the brake drum and the brakes may not hold properly.

5. To keep the brakes in good condition:

- a. Once in two months remove the rear wheels and wash the brake linings in kerosene. This removes all oil and grease which if present take the "bite" out of the brakes. Never oil brake lining.
- b. Brakes squeal when they are glazed or when improperly adjusted. Squealing can often be stopped by removing wheels and roughening the brake lining with a file.
- c. If brake lining is worn down to the rivets, sink the rivets still farther or have the brakes re-lined.
- d. Wipe off and oil the brake mechanism every 500 miles, or at least once a month.
- e. Make regular, systematic brake inspection a habit. The loss of a cotter pin might lead to a serious accident. When a lock washer is removed, don't put it back; use a new one.
- f. More accidents result from faulty adjustment or application of brakes than from any other cause.

Adjustment Vital to Safety.
7. All drivers should keep the brakes adjusted properly. Brakes should not be too loose; loose brakes do not act quickly enough. Different adjustments are made for different types of brakes:

- a. On the shaft brake there is a nut on the brake band which can be adjusted to make the brake neither too tight nor too loose. Brake rod can be turned either to right or left to make it proper length for efficient use of brake.
- b. On axle or wheel drum brake where equalizer is used apply the brakes when engine is still. Adjust equalizer until it is parallel with axle.
- c. On external type of wheel drum brake tighten or loosen adjusting nut on brake band, and equalize length of brake rods.
- d. On internal type of wheel drum brake it is necessary to remove rear wheels. Adjust cam plates and adjusting nuts, also equalize length of brake rods.
- e. After the brakes are adjusted so they are neither too tight nor too loose, they should be tested every 1,000 miles, or at least once a month, to make sure that the braking power is equally divided between the two rear wheels. Many cars skid, not only because of unequal division of braking power, but also because of unequal division of braking power. Jack up rear wheels and apply brake far enough so that it is just possible to turn one wheel by hand. Adjust brake on other wheel so the same amount of energy is required to turn that wheel by hand.

How to Apply Brakes.

9. Do you apply your brakes properly when "on the road"?

a. When coming to a stop on a straight-away, shut off the gasoline throttle and leave the clutch engaged until just before you come to a stop; this method of stopping is especially advisable in wet weather because it lessens the tendency of the car to skid. It also helps to distribute the braking power equally, and assists the action of the brakes.

Do not shut off the ignition until after you have stopped; it may be necessary to make a quick start. Find out the idling speed maintained by your car when the gasoline throttle is closed, then never (except in emergency cases) try to use your brakes when the clutch is engaged and the car is traveling slower than the idling speed.

h. In going down an ordinary hill, leave the clutch engaged and close the gasoline throttle. This helps cool the engine and also makes it unnecessary to use the brakes. It is sometimes desirable to turn off the ignition switch; this further cools the engine and adds to the braking power.

c. In going down steep hills or when descending ordinary hills with a heavy load, put the gears in intermediate or low speed at the top of the hill and leave the clutch engaged. Shut off the gasoline throttle and, if desirable, turn off the ignition switch.

d. In ordinary driving do not use the brakes oftener than necessary; regulate the speed of the car as much as possible by use of the throttle. If the car is equipped with a foot throttle use it in preference to the hand throttle. This leaves the hands free to operate the gears and the steering wheel.

e. In making an emergency stop, leave the clutch engaged, apply the foot brake and pull the hand brake; but do not "lock the wheels." Keep the wheels rolling; otherwise there is danger that the car might slide or skid.

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Undertakers Add Motor Hearse to Their Equipment

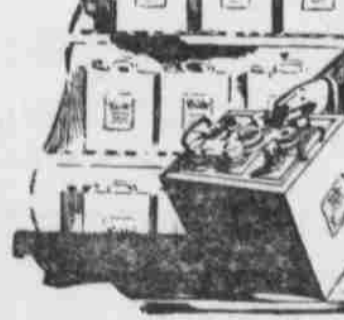
The finest hearse on the Pacific coast has arrived in Salem. The Sayers-Seville Masterpiece was brought in by Webb & Clough. It is acknowledged to be the finest hearse that has ever been placed upon the market.

It is built with a 60 horsepower Continental Red Seal motor and finished in a two tone green with beautiful grey upholstery. This car incorporates all the latest features in hearses. Its removable canvas floor is a great time saver and makes it possible to use it as a first class car. It is also equipped with driver's mirror on both sides. The spot light in the rear will enable the driver to back any place in the night.

A fleet of 514 passenger automobiles is operated by the Bell Telephone company, of Pennsylvania for construction work.

Exide

MADE BY THE ELECTRIC STORAGE BATTERY CO.



DO you know what "Exide" means when it comes to selecting a starting battery for your car?

It means you are getting a specialized product backed up by over a generation of specialized experience. It means you are getting the best that the largest maker of storage batteries in the world can produce. It means you are getting the starting battery right in every detail; construction, performance, durability.

Know the facts—come in and examine the "Exide" for your car.

R. D. BARTON
171 SOUTH COMMERCIAL STREET
PHONE 1107
SALEM, OREGON

Highway South Of Salem Good Drivers Report

With favorable climatic conditions on Blossom Day the Pacific highway between here and Jefferson will be the center of attraction for hundreds of visitors who will view the territory for several miles south of Salem.

Since the improvements made in the unpaved section of the road a few days ago it is in excellent condition, and the natural scenery in the Marion county hills south of town and the hundreds of acres of fruit in bloom make it a pleasant drive. This strip of country has been the subject of much favorable comment for several days and it will be in all its glory by Sunday if the weather can be depended upon.

Last Sunday those who made the trip from Salem to Jefferson and southern points through this strip of country found the road lined with vehicles and people and the only unpleasant feature of the excursion were the road hogs and the speeders.

Gasoline Gossip

The addition to the 12th street garage owned by Colwell Bros. is progressing rapidly. They expect to occupy the room for a work shop. The room now used for repairing will be occupied for a sales department and storage.

R. L. Cochran, Goodyear Tire Co. representative with headquarters in Salem for some time, has been transferred to Douglas county and will locate in Roseburg permanently. He succeeds Geo. H. Smith of that city who is soon to embark in the garage business. Mr. Cochran has all of the territory in Oregon south of Eugene, including Coos Bay and Klamath Falls. Mr. and Mrs. Cochran were in Roseburg



They win on reputation—when you think of batteries you naturally think first of Willard. They win on quality. The most important battery improvements, including Threaded Rubber Insulation, originated with Willard.

Willard Batteries Win

They win in dollars-and-cents saving. No outlay for replacement of insulation if you buy the Willard Threaded Rubber Battery because Threaded Rubber Insulation outlasts the battery plates.

The Willard Threaded Rubber Battery is standard on 172 makes of cars—used for export on 2 others. Ask us about it. We're headquarters for Willard Batteries and Willard Service.

DEGGE & BURRELL
Auto Electricians
238 N. High Street

Willard Batteries

It means you are getting a specialized product backed up by over a generation of specialized experience. It means you are getting the best that the largest maker of storage batteries in the world can produce. It means you are getting the starting battery right in every detail; construction, performance, durability.

Easy on the Clutch.
One of the most common mistakes in driving is the "riding" of the clutch, which a majority of operators indulge in. If the foot is kept constantly on the clutch pedal, even though lightly, the action causes rapid wear of the clutch thrust bearing and clutch slipping. If the clutch is of the cone variety the facing is worn excessively, while in the disc clutch in oil, the extra heat tends to thin the oil and permits grabbing. Drivers should keep off the clutch, except when it is to be operated.

Raffael DeGuire, who has been working in a hop field near Independence during the past few months, has returned to Salem and accepted a position in the Olds Mobile Garage on Commercial street.

Lulay Brothers, loggers and lumbermen operating east of Sublimity, have purchased from the Marion Auto Co. a big 3 1/2 ton White truck which they are successfully making use of in hauling logs and lumber.

Dealer Tells City Council How To Save Finances

Robert H. Hassler, president of the Massler shock absorber manufacturing organization, tells the following as his best dealer story. The other day he was talking with some friends about dealer enthusiasm.

"I like to think of the story about our dealer out in that little town," said Mr. Hassler. "It seems that he was a real booster."

"He became the talk of the little town, always boasting our product, and folks began to consider him as an institution. He was a real salesman, and naturally produced results."

"One time the village council was debating whether or not the streets should be repaired. There were many bad places in the pavement, and there could be no doubt about the need of such work."

"Yet it would mean higher taxes and assessments. And this point was the bone of contention. Many of the citizens had appeared before the council to protest or argue in favor of the ordinance."

"Then came the Hassler dealer. He stood up before the council and said: 'Gentlemen, there would be no need of fixing the streets at all if you had everybody get Hassler shock absorbers on their cars!'"

"That is what I call real dealer enthusiasm," concluded Mr. Hassler.

In 1920 there were only four automobiles in the United States.

Easy on the Clutch. One of the most common mistakes in driving is the "riding" of the clutch, which a majority of operators indulge in. If the foot is kept constantly on the clutch pedal, even though lightly, the action causes rapid wear of the clutch thrust bearing and clutch slipping. If the clutch is of the cone variety the facing is worn excessively, while in the disc clutch in oil, the extra heat tends to thin the oil and permits grabbing. Drivers should keep off the clutch, except when it is to be operated.

Studebaker

NEW LIGHT-SIX

—only the NEW LIGHT-SIX gives you this exclusive feature

PERFECT and efficient combustion is obtained in the New LIGHT-SIX by the ingenious arrangement of the intake manifold and INTERNAL HOT SPOT—an exclusive Studebaker invention—conceived by Studebaker engineers.

You can have the advantage of this motor's wonderful gasoline economy and the satisfaction of its smoothness of operation only by owning a Studebaker LIGHT-SIX.

The remarkably low price of this car is due to quantity production, low overhead, small profit per car, and the fact that it is completely manufactured by Studebaker in the newest and most modern automobile plant in the world. The elimination of middlemen makes but one manufacturing profit necessary.

See this remarkable car—compare it with any other light-weight automobile on the market—and you will be convinced of the great value it represents.

Touring Car.....	\$1750
Landau-Roadster.....	1990
Sedan.....	2490

Cord Tire Equipped.
F. O. B. Salem.

MARION AUTOMOBILE CO.
235 South Commercial St. Phone 362

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