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PLAN TO RELINE BRAKES ON AUTO

Work Should Be Done Before
Commencement of Snow-Cov-
ered Streets and Highways.

MUST FOLLOW INSTRUCTIONS

Before Removing Brake Carefully Note
Which is Top and Bottom of As-
sembly and See Just How the
Spring is Inserted.

Long and strenuous touring during
the summer months just past natu-
rally causes wear and tear on brake
lining, which should be given careful
attention by car owners before the

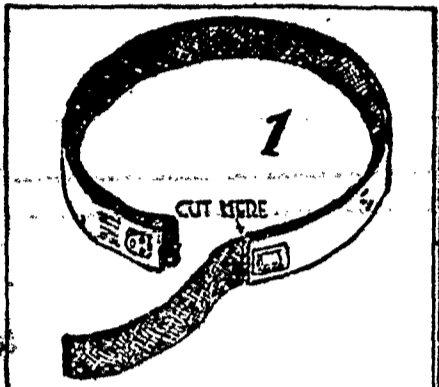


Fig. 1—Measuring the New Lining.

commencement of the snow-covered
pavements and slippery roads, says a
writer in the Chicago Tribune.

While the task of relining brakes
is one primarily for an experienced re-
pairman, the operation can be per-
formed by those who enjoy doing their
own work if they will but devote the
time required to do it efficiently, the
method to be followed being explained
herewith:

First, purchase the new lining in
one piece, cutting the necessary
lengths after the wheels and brakes
have been removed.

The correct length of material is
obtained by laying a tape measure
around the outside of the external
brake band, making an allowance of
about one-half inch overlapping at the
edges of the band opening. This
gives the proper length for one exter-

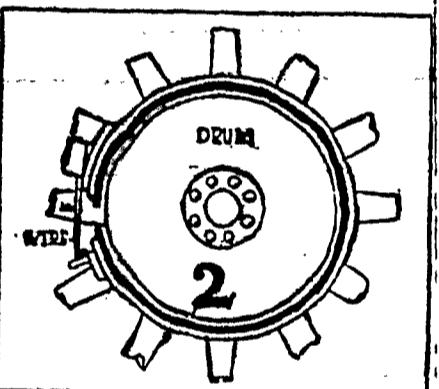


Fig. 2—Wire the Band to Hold It
in Place.

nal brake, from which one and one-
half inches should be deducted for
the length of the internal brake.

To Prevent Slipping.

To guard against any accidental
slipping after the rear wheels have
been jacked up, place the axle on good
strong horses. If the latter are not
available, block the front wheels se-
curely to prevent the car from roll-
ing ahead or back off the jacks. Be
sure that you are thoroughly familiar
with the method to be followed in re-
moving the wheels from your particu-
lar make of car. If necessary, or
at least doubtful, consult your book
of instructions. Follow the instruc-
tions minutely.

A large clevis pin, on the back of
which is first a washer and then a
cotter pin, holds the toggle connec-
tions of the brakes in place. The
toggles should be disconnected with
the brake shoes and the adjustment
screw removed from the guide that
acts upon the anchor bar. With the
removal of the coil springs that are
attached to the band the brake will be
ready to be taken off.

Here a word of warning may be
necessary. Before removing, carefully
note which is the top and which is
the bottom of the assembly, and see
just how the spring is inserted be-
tween the guide and the anchor bar;
the exercise of care at this point will
prevent trouble when the brake is
ready to be replaced. All grease
around the dust guard and axle stub
should be removed and the parts
thoroughly cleaned with gasoline.

Now put the band in a vise and with
a cold chisel and hammer chip off the
copper rivets that hold the lining to
the band, then drive out the old rivet
ends with a punch.

Allow for Overlapping.
It is necessary in cutting the new
lining to allow for overlapping for
the reason that the rivet holes at
this point are very close to the edge,
and to leave the lining short here
would allow it to tear when the holes
are drilled. See Fig. 1 for the
method of determining the correct
length. If the old lining can be re-
moved intact it can be used as a
guide in obtaining the new measure-
ments. As the average private garage
generally lacks the tools used in this

work at service stations, simpler tools
have to be employed.

In marking the lining for the holes
lay the wheel on the bench or floor
with side down and put the lining and
the drum as shown in Fig. 2. Wire the band so as to
hold it in place correctly. With a
pencil or soapstone stick and using the
holes in the band for a template, mark
the lining. A harness leather punch
is used in making the holes.

Secure the lining to the band in its
proper position with the aid of a few
small bolts and nuts. Next counter-
sink the holes so the rivet heads will
be below the surface of the lining.
A countersinking tool made for this
purpose produces the most satisfac-
tory results, but if one is not avail-
able one can get good results from
a wood screw countersinking tool and
a brace. If the latter is used it should
be sharp or the lining will tear.

Should Have Vise.
If you do not possess a vise, place
the band on the bench in such a way
as to prevent it from slipping away,
and with the countersink bit counter-
sink each hole. Do not go too deep
on this operation, only enough to al-
low the rivet heads to be well below
the lining surface.

Unless there are two people, one
holding the band and rivet bar while
the other is using the hammer, it is
almost impossible to get along with-
out a vise.
Fig. 4 shows a way of using an
old bolt held in a vise with the head
of the bolt resting on the arm of the
vise to give solid foundation. Insert
a rivet through the lining and the
band and, with the whole in place, as
in Fig. 4, the head of the rivet rest-
ing on the bolt, draw the rivet snug
with a rivet set, or a short piece of
gas pipe. A few blows will be enough
to draw the rivet head and the lining
tight and in place. Avoid too much
pounding, as it will tend to draw the
rivet deeper in the material and possi-
bly weaken to the point of breaking
through.

It may be found that rivets are too
long or too short; not more than
three-sixteenths of an inch should
protrude through the band. In rivet-
ing these ends use quick light blows.

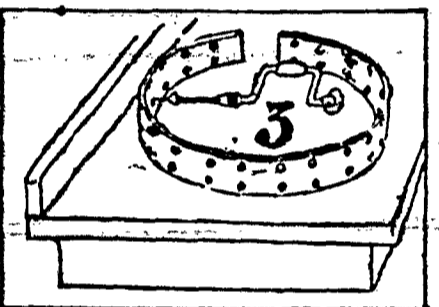


Fig. 3—Countersinking the Holes in
the Brake Band.

as heavy ones will draw the rivet
head in the lining too tight. This
operation is performed with the brake
in the same position as when using
the rivet set. Do not remove the
bolts that were used as temporary
holdings until the holes not occupied
by bolts have been filled with rivets.
This completes the foot brake, and
the same methods are used in relining
the internal or hand brake.

For Internal Brakes.

With the exception of the marking
of the holes the methods just de-
scribed are applicable to the internal
brake. It is not necessary to put the
shoe in place with the lining, as with
the external band. When the lining
has been cut, making the same allow-
ance for the ends as was given in the
foot brake, mark and attach this end
with bolts in its proper place on the
shoe.

After stretching the band over the
shoe, mark and punch the holes that
are opposite the split in the band.
Do the same with the last two holes
and complete the temporary attach-
ment. The riveting follows the same

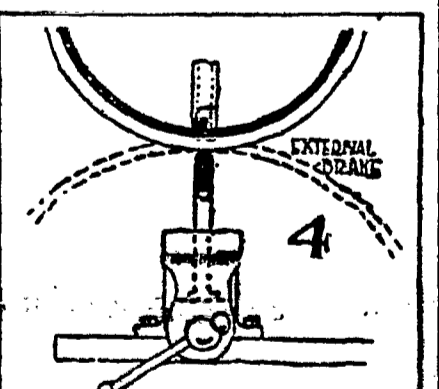


Fig. 4—How to Use an Old Bolt and a
Piece of Pipe as a Rivet Set.

course as in the foot brake. Re-
place the brakes, being careful to
secure every part in its proper posi-
tion. It will be necessary to make
a complete readjustment. Before
putting on the wheels, clean the bearings
and pack them in fresh grease. Much
brake trouble is caused by the leak-
ing of grease into the brake mecha-
nism. In order to remedy this, for a
time at least, cut a thick strip
of felt long enough to be wrapped
around the axle bar three or four
times. The felt should be of suf-
ficient thickness to fit snugly between
the bar and the housing when wrapped
around the shaft.

Don't leave your automobile stand-
ing under a tree that throws off a
gummy substance, as it is hard to re-
move and may eventually spoil the
paint on your car.

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Battery Tips.

- Cover the plates with water.
- Turn on the lights when the battery becomes hot.
- Test the battery every two weeks with a hydrometer.
- Always be sure to have sufficient pure distilled water in the battery.
- When filling the battery, wipe the surface clean of moisture and dust.
- Relieve the work of the battery when starting by retarding the spark, and only using a single short pressure to the starting button.



George W. Henner
One of the directors of the Rochester
Auto Dealers Association.

AUTOMOBILE NEWS

An automobile should never be
pushed backward by the radiator if
it is not strong enough.

Perfect vaporization of the gasoline
means more thorough combustion, and
consequently less carbon deposit.

Several flagrant tire abuses, which
are becoming common, resulting in
blowouts prematurely, can be avoided
by proper care.

Too abrupt dimming of automobile
headlights is a menace to the driver
on account of the sudden change from
brightness to darkness.

An automobile tire, invented in Eng-
land, is made of solid rubber, having
three deep air chambers cut into it
from the side against the wheel rim.

High speed turbine pumps have been
designed to be mounted on passenger
automobiles and operated by their mo-
tors to enable them to run on five
engines.

AUTOMOBILE GOSSIP

Be sure the jack is quite secure be-
fore taking of the tire or wheel.

Proper lubrication of the brake con-
trol mechanism of a motorcar is most
essential.

Sheet metal parts, which are al-
lowed to rub as a result of loose
bolts, develop bad squeaks.

TUBE THAT REPAIRS ITS OWN PUNCTURES

Described as Most Ingenious De-
vice Attained So Far.

When Inflated Pressure is Set Up Suf-
ficient to Close Hole Made by Or-
dinary Puncture and Keep
It Closed.

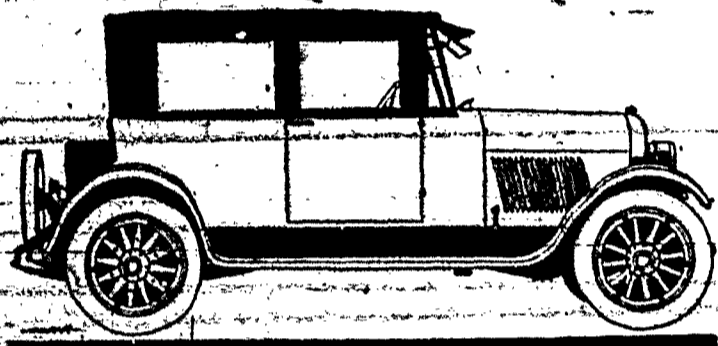
Here is an inner tube that repairs
its own punctures and it is described
in the Scientific American as the most
ingenious attained up to date on this
perennial problem. The inventor
makes his tube with a circumference
considerably greater than the inner
surface of the casing for which it is
designed. The extra rubber is taken
care of and it is made possible to in-
sert the uninflated tube inside the shoe



Tube Repairs Its Own Punctures.

by deep corrugations that are molded
around the tube, as indicated in our
diagram, which shows the uninflated
tube in position in the casing. When
it is now inflated and forced by its
contained air to conform to the shape
of the casing, a pressure is set up
along its outer wall which is claimed
to be sufficient to close the hole made
by any ordinary puncture, and keep
it closed. The "compression tube" is
made in Tulsa, Okla., and has been in
rather extensive use in the Southwest,
with very good results.

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