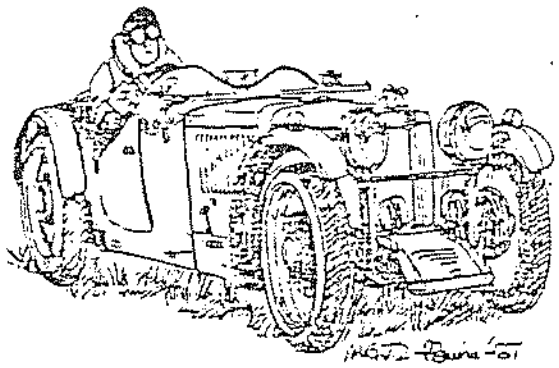

J2 TECHNICAL ARTICLE

Number 80

From Octagon Heaven

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THE BRAKE PEDAL HAS ROLLER BEARINGS

If you have never taken your foot brake pedal apart then you would probably not have realized that there are needle roller bearings between the pedal and the pivot pin similar to those in the end of the brake cross shaft.

I did not know that when I was taking my foot pedal apart and nearly lost some of those "bloody" things!

There is no problem taking the unit apart but you might have a problem putting them back in. There are two methods of doing this task --

a. the sticky grease method.
b. the dummy shaft method.

A. Some "mechanics" like to use a heavy grease, lubricate the rollers so they stick to the wall of the part(in this case the pedal). This will work but you will end up with roller bearings that are stuck together with sticky grease.

B. The dummy shaft method in this case is easy. Cut a 9/16 diameter rod the lenght of 15/16 long and put a small bevel on each end. In my case I took an old worn-out 3/8 drive socket and ground off a few thousands off of the diameter. It does not have to be perfect for the pivot pin has a chanfer on the ends and will force the rollers into proper position.

   Now put the dummy shaft in the hole and load the roller bearings around it. Put the pedal in position and slide the pivot pin into position, pushing the dummy shaft out as it goes into the assembly.

I noticed the Lubrication chart, Tech. Article No. 68 does not call for lubrication of the brake pedal. I would suggest a little gear case oil be applied at the same frequency as most other lubrication(2000 miles or in our case yearly).