



***Ural (Урал) - Днепр (Днепр)
Russian Motorcycle
Drum Brakes***

***Part II: Drum Brake Repair and
Adjustment***

(Front, Rear and Sidecar, Prior to 2014)

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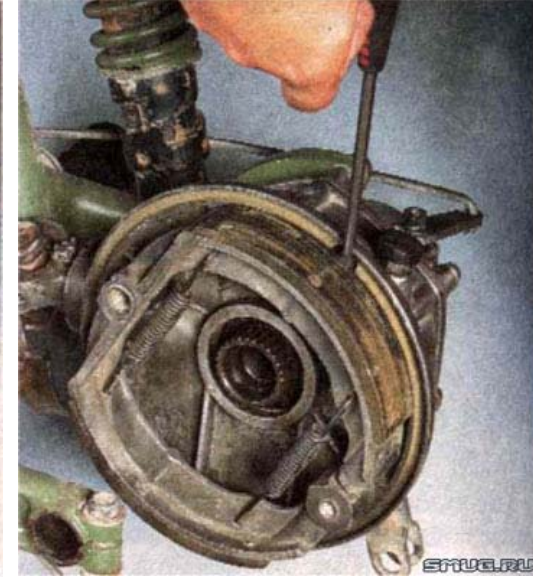
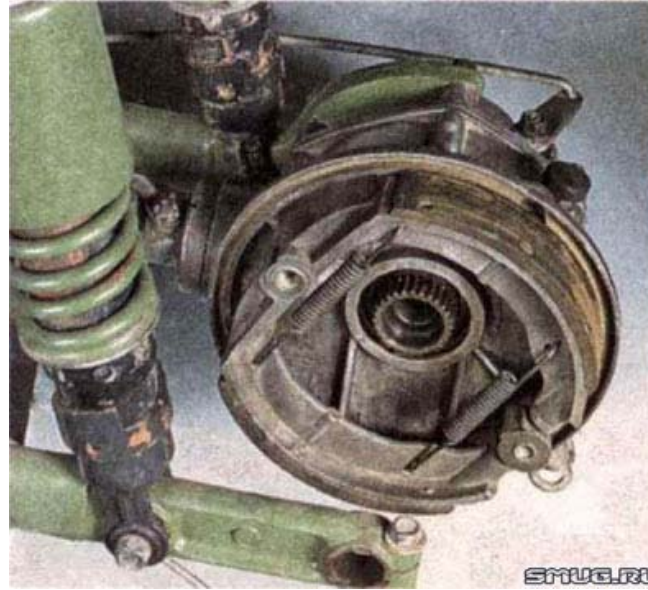
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Drum Brakes: Replacement Pad

(<http://www.smug.ru/ural-remont/tormoza/barabanny-tormoznoy-mekhanizm-zamena-kolodok/>)

- Assess the condition of brake pad drum brake rear wheel on a motorcycle can through the inspection hole gear case, closed with a rubber stopper.



Before attempting to replace the pads, you need to assess the condition of the brake linings. Minimum thickness of brake pads is 1 mm. If the thickness is less than 1 mm pads, pads must be replaced. Replacement brake pads for motorcycles "Ural" are made when removing the wheel.

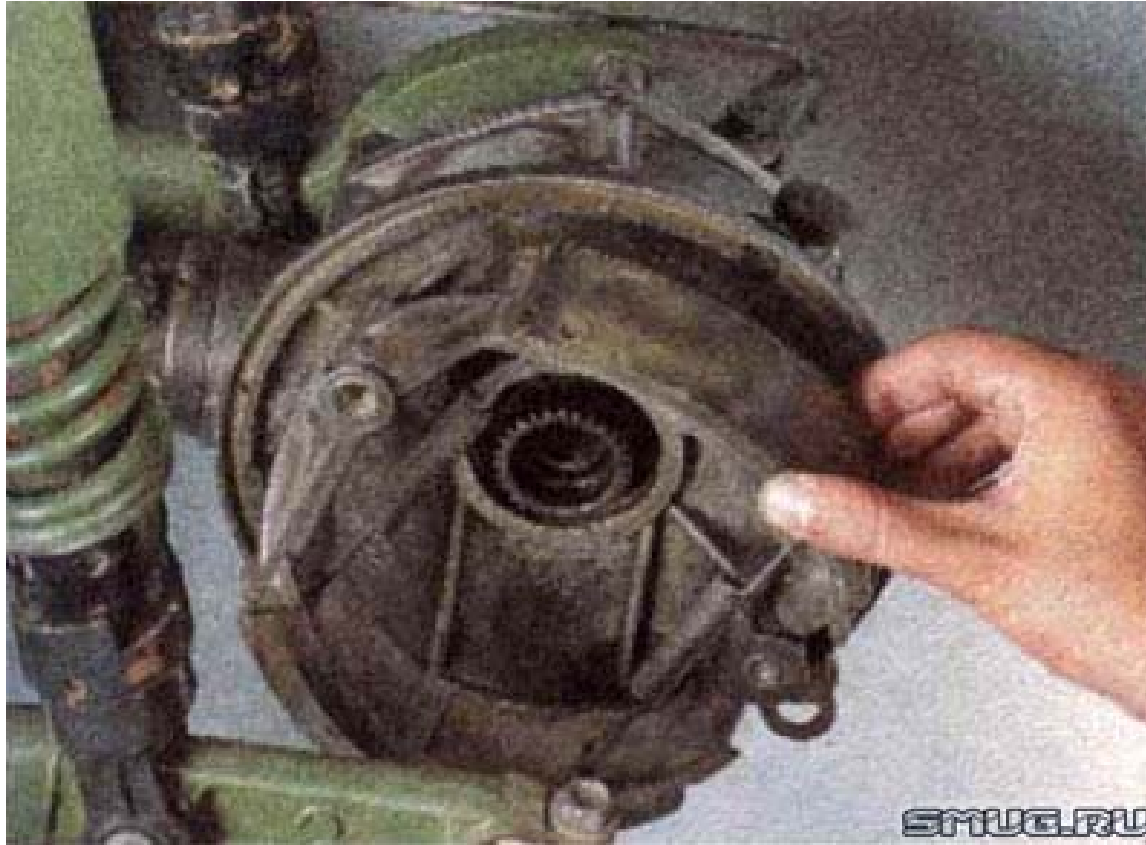
1. Removing the axle and removing the wheel, we get access to the brake pads

2. Screwdriver hooked one of the shoes, remove them with a cam and a support pin. If a replacement is not planned pad (eg, in the case of dismantling the rear gear), mark the position of pads to install the assembly in their former position

1. Brake linings must be whole and have no chips and other mechanical damage caused by other than natural means - friction. If there is any damage to themselves or pad linings - pads must be replaced. 2. Brake linings shall be firmly glued to the base pads. If there are noticeable defects adhesive bonding (pad not flush to the ground, noticeable gap between the pads and the base) pads must be replaced. 3. Recovery brake pads (reshaping brake lining deformations, re-sticking brake pads to the pads) is unacceptable 2

Drum Brakes: Installation

- **Before installing the pad support pin, grease knuckle with small amount of grease. Replacement pads should be done in pairs. Hold pads on the support pin and pressing their hands to drive, align the cam and the reference pin.**



After installing the brake pads, install and adjust the wheel drum brake mechanism (see "Drum Brake. Adjustment").

After installation, carefully check that the pad did not get any grease on the pads. If so, remove grease, gasoline degrease (acetone, brake cleaner) before travelling on public roads. Be sure to check the brake mechanism in a closed area. After cleaning or replacing, the brake pads do not immediately become normal efficiency. It takes time for burnishing brake pad to the drum (about 100 km)

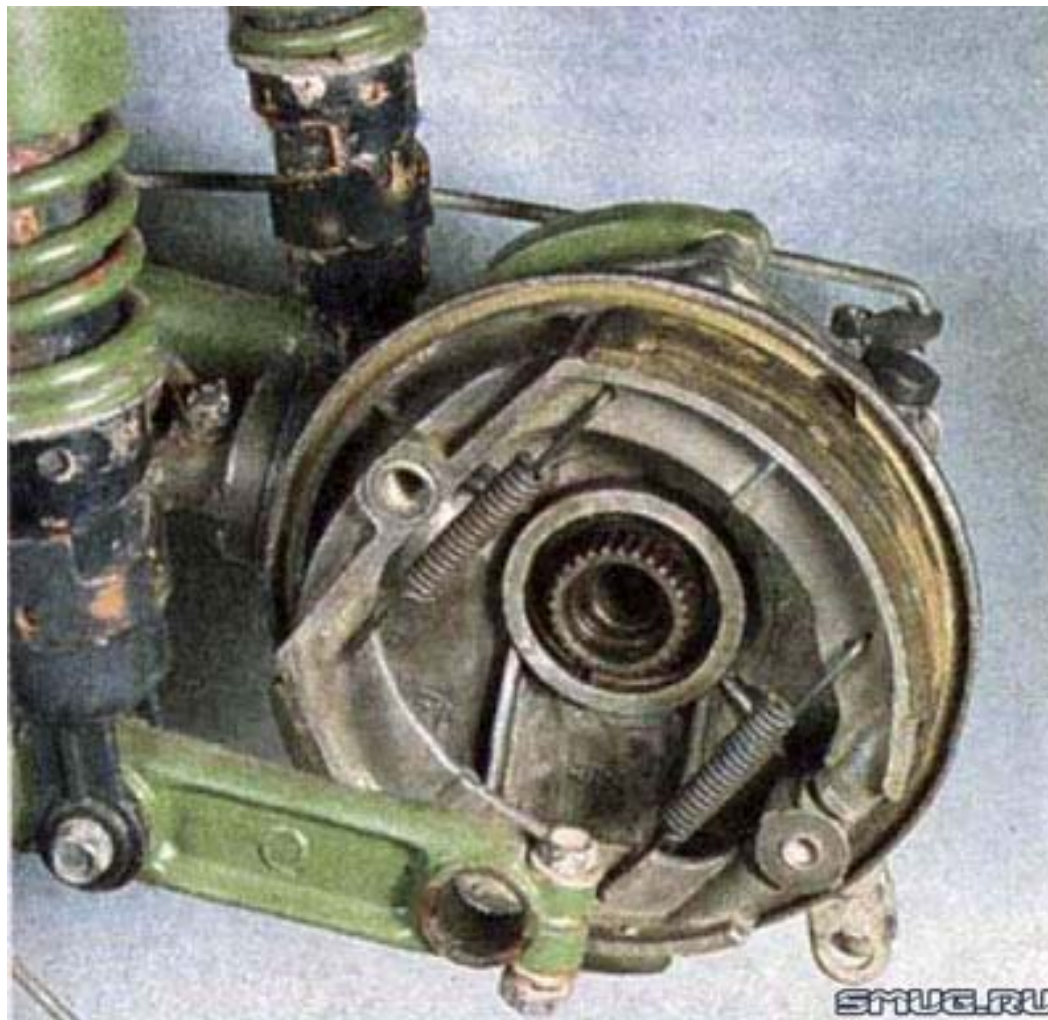
Drum Brakes: Adjustment

- **Service and drum brake adjustment should be done at least twice a year or when the brake lacks performance. Decrease in the effectiveness of the braking mechanism is due to natural brake wear and dirt, or sizing of the braking mechanism. Adjustment mechanism is made by tightening (or loosening, if the wheel rotates with a palpable effort) key on a 12 mm rod nuts. Making full use of the thread rod allowed permutation (1-2 slot clockwise) brake lever located on the roller cam. To do this, unscrew the key on a 12 mm nut roller cam. When worn brake pad to the limit and must be replaced (see "Drum Brake. Changing Pad").**



Drum Brakes: Description of Construction

•Drum brakes are used on motorcycles "Ural" from the earliest models and virtually unchanged to this day. The design differs sufficiently simple compared to hydraulic disc systems, but at the same time much less effective. The advantage of drum brakes with disc than is their grjazezashchishchennost. It can play a crucial role in driving off-road, where this feature is particularly important. Furthermore drum brake better protected against damage than a disc or more maintainable.

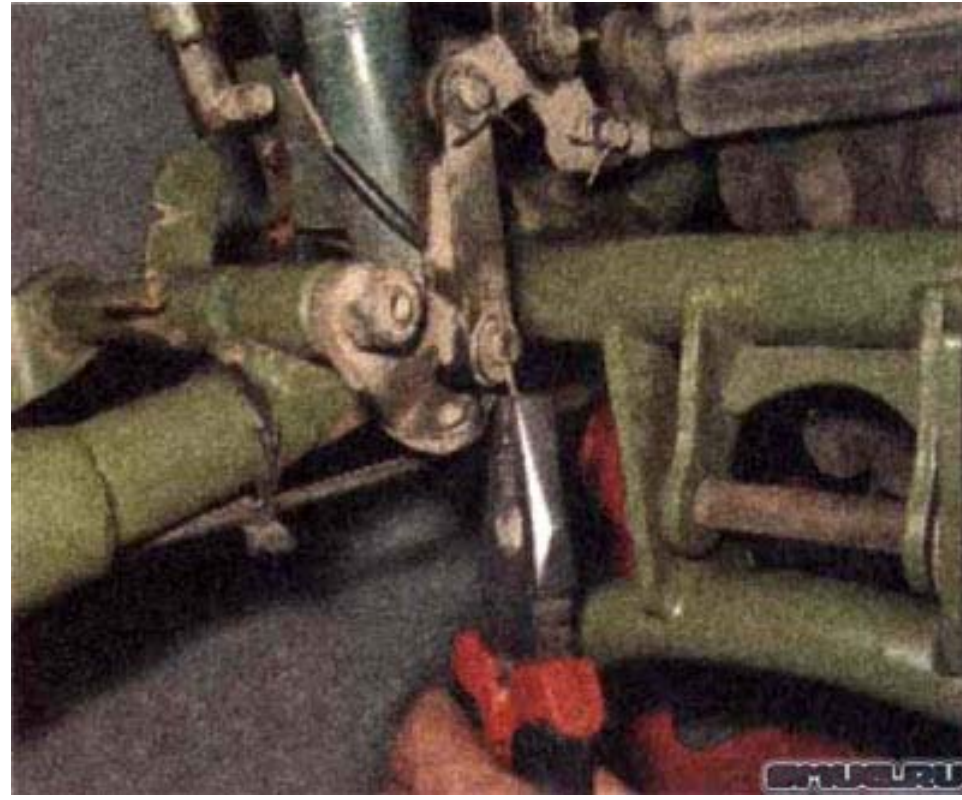


Rear Brake Pedal: Removal and Installation

•Removal



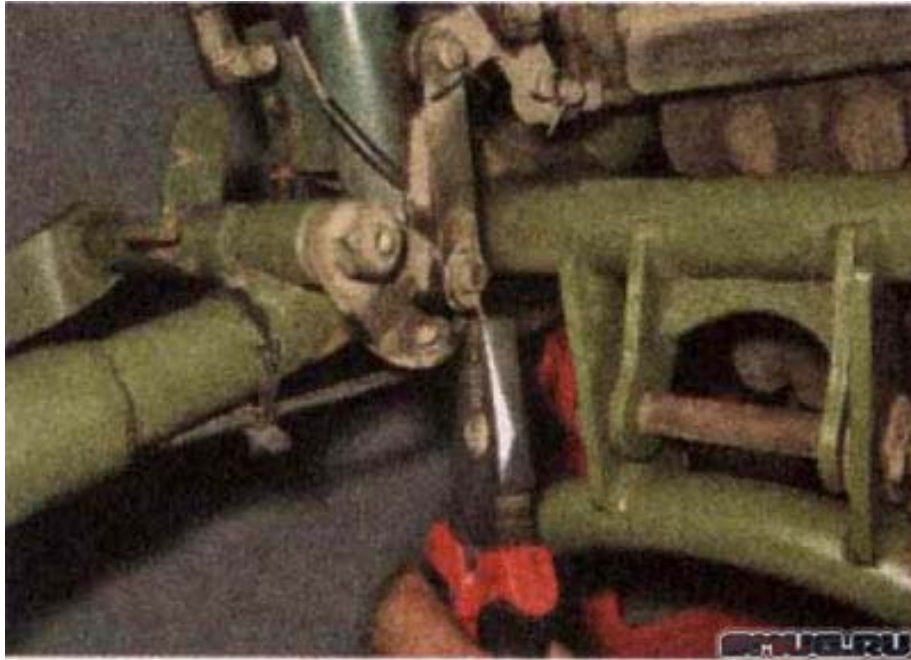
1. Remove pliers recoil brake pedal.



Further the process of removing the pedals shown if you remove the power unit (for clarity).

2. Extracting pliers pin traction pedal.

Rear Brake Pedal: Removal and Installation (cont.)



3. Take out the axis of thrust.



4. Use a wrench to remove the 17 mm axle pedal nut.

5. Before removing the thrust sector encouraged to do at the end of the axis label for proper installation in the future. Remove thrust sector and take out the brake pedal assembly with the axis of the seat.



Installation of rear brake pedal is in reverse order.

Rear Brake Adjustment (2003 Ural Manual)

- **Foot Brake Adjusted by Adjusting Nut Situated on Rear End of Brake Tie Rods**
- **First Slack Off the Nut on the Tie Rod of the Sidecar Wheel Brake**
- **Then Adjust the Sidecar Wheel Brake by Tightening the Nut on the Brake Tie Rod**
- **After the Foot Brake Has Been Adjusted Properly, Back-Off the Nut on the Tie Rod of the Sidecar Wheel Brake by 2-3 Turns to Keep it from Pulling to the Right When Applying the Brake**



Rear Brake Adjustment Nut