



- **SECTION 4 AUTOMATIC ADJUSTING
DEVICE OF BRAKE CLEARANCE**



- **Installation and Adjustment of Brake Clearance Automatic Adjusting Arm**
- 1. Put the brake chamber push rod at the initial position, coat the end of camshaft end with grease, and then install the locating support of the adjusting arm by bolts on the camshaft support, pay attention not to tighten the bolts at this time, so that the locating support can be free to move on the camshaft support boss.
- 2. Install the adjusting arm on the camshaft. Pay attention that the arrow direction on the housing should be in agreement with the braking direction, i.e. the direction that the brake chamber push rod pushes the adjusting arm outward.
- 3. Use the wrench to rotate clockwise to adjust the hex worm head at the end (Caution: don't use the electric wrench and pneumatic wrench), so that the hole of the adjusting arm is naturally aligned with the cylindrical pin hole of the chamber push rod U-fork, and then insert the cylindrical pin into the U-fork hole and lock the cotter pin.
- 4. Fix the adjusting arm on the camshaft using bolt, washer or retaining ring, and at this moment, the adjusting arm should be made sure to have an axial clearance of 0.5~2mm, and then push the control arm of the adjusting arm towards the braking direction (there is an arrow on the control arm to indicate



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the pushing direction) , until it can not be pushed any more. The purpose of the above operation is to ensure the set clearance between the friction pad and brake drum. And after that, fasten the control arm of the adjusting arm's locating support.

- 5. Adjust the brake clearance: use the wrench to rotate clockwise to adjust the hex worm head, until it can not be rotated any more (the friction pad is in contact with brake drum) , and then rotate counterclockwise the hex worm head by 3/4 turn (a "click" sound can be heard when rotating in reverse direction) . Caution: Don't use an electric wrench or a pneumatic wrench.
- 6. Apply brake for several times, the brake clearance is automatically adjusted to the normal range, and it can be seen that the hex worm head will automatically rotate in the clockwise direction at the time when braking is about to finish.
- 7. Check the brake clearance and the travel of chamber push rod, and while checking, it is required to use the maximum pressure to control the brake chamber, and after correctly adjusting the brake, the free travel of push rod is not greater than 15mm.

