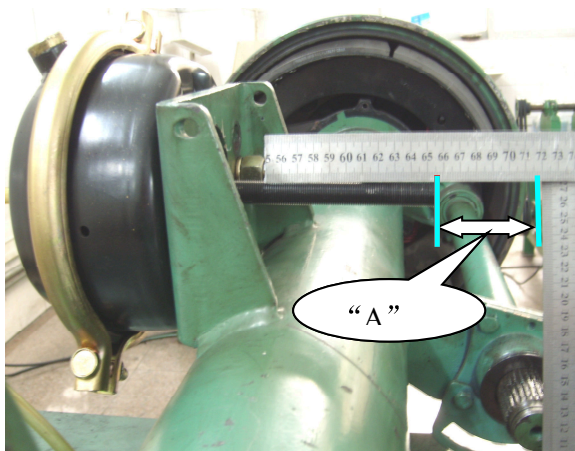


Series ASB Auto Slack Adjuster Installation Guideline



Prior to Installation

1. Chock the vehicle wheels (Block all the wheels to prevent the vehicle from rolling).
2. Check the operating condition of the foundation brakes including drums, shoes, and linings, cams, bushings, rollers, etc. To ensure all components are in good condition.
3. Ensure the brake chamber push rod is fully retracted. The air pressure should be higher than 0.6 Mpa (6bar) for parking chamber.
4. Ensure the AL coefficient is 195 or below (The AL coefficient is the size of brake chamber multiply the arm length of auto slack adjuster, for example, brake chamber-T30 and 6" auto slack adjuster, the AL is $30 \times 6 = 180$), Then choose the right auto slack adjuster (arm length, spline, push rod thread)
5. Ensure the brake chamber push rod is propriety. When the push rod is fully retracted, check that the arm of the slack adjuster forms a 90 angle with the brake chamber push rod. Then measure the distance "A" between the head of push rod and the center of the camshaft (Fig 1). And compare with below form.
 - a. If "A" measured is less than shown in Fig 1, the push rod needs to be shortened.
 - b. If "A" measured is larger than shown in Fig 1, the push rod needs to replace a longer one.



Arm Length	"A"
5"	2-7/16" ~3" (62-76mm)
5-1/2"	2-1/2" ~3-1/8" (63.5-79.5mm)
6"	2-3/16" ~3-5/16" (55.5-84mm)

Fig 1

Auto Slack Installation Procedures

1. Clean the camshaft spline and apply oil on it, then assemble the auto slack adjuster on the camshaft. Note: The direction of the worm shaft hexagon should be the same with the movement of the push rod.
2. Run the push rod nut up to the push rod about 33.5mm (1-5/16") ; then remove the yoke adapter

from the auto slack adjuster, run the yoke adapter up to the push rod about 9.5mm (3/8") ; then rotate the worm shaft hexagon clockwise with 9/16" or 14mm spanner, until the auto slack adjuster contacts the yoke adapter. (Fig 2)

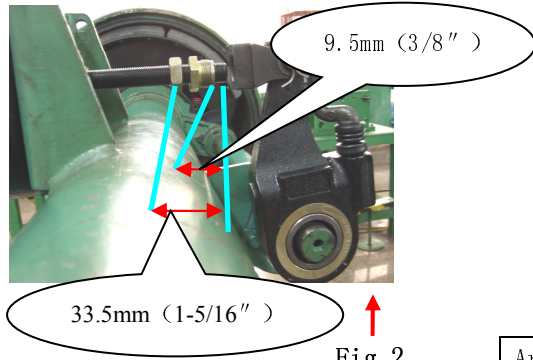


Fig 2

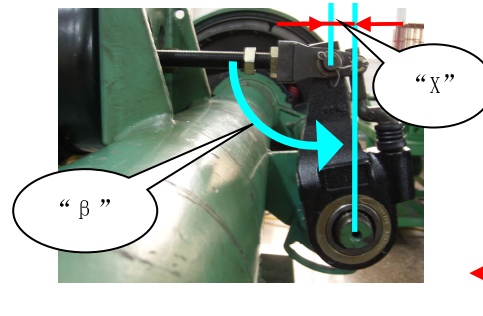


Fig 3

Arm Length	"X "	"β "
5 "	1-3/16" ~2" (30-51mm)	105° ~110°
5-1/2 "	1-1/4" ~2" (32-51mm)	105° ~110°
6 "	15/16" ~2" (23.8-51mm)	100° ~110°

3. Rotate the yoke adapter to the yoke with spanner (Fig 3). Now, refer to Fig 3 parameter to confirm the "X" distance between the center of the camshaft spline and the center of the yoke pin, the angle "β" between arm length and push rod are in the proper position; Also the push rod thread should be not excess yoke adapter 3.2mm (1/8") ,or yoke adapter at least rotate to push rod 12.7mm (1/2") . If exceed the above require, the auto slack adjuster needs to be re-installed.
4. Tighten the push rod nut against the yoke. Its torque: 5/8" -18UNF push pod thread, 45-68N.m (400-600in. lbs) ;1/2" -20UNF push rod thread, 34-45N.m (300-400in. lbs).
5. Use the washer or clip to fix the auto slack on the camshaft spline to control the auto slack' s movement clearance. The movement clearance is 0.5-2mm.
6. Adjust the brake clearance by manual. **Notes: Adjust the brake clearance must be according to factory requiring strictly.** Turn the worm shaft hexagon clockwise with 9/16" or 14mm spanner to the propriety clearance, Then back off the worm shaft hexagon 1/4 circle. Then ensure the push rod is 12.7mm (1/2") stroke or not, if not, please readjust the brake clearance.
7. Apply the brake with 0.55-0.7Mpa (80-90psi) air pressure, Perform a few brake application, the brake clearance will be adjusted to normal scope. The angle between arm body and push rod is about 90 degree. (AS Fig4).

Auto Slack Adjuter Maintenance Procedure

1. **Lubrication:** The lubrication of auto slack adjuster and the lubrication of truck chassis should be carried out on the same time, but not excess 10 thousand kilometers, The grease should be adopted NLGI 2 grease.
2. **Foundation brakes inspection:** Passenger car run 10 thousand kilometers, truck and trail run 20 thousand kilometers need to check the stroke of auto slack brake, brake clearance are normal or not; Check every accessory is loosed or not.
3. **Quality promise:** The auto slack adjuster is one year limited warranty. But below situation is not included in the warranty: 1. incorrect use. 2. Disassemble by yourself. 3. Over one year.

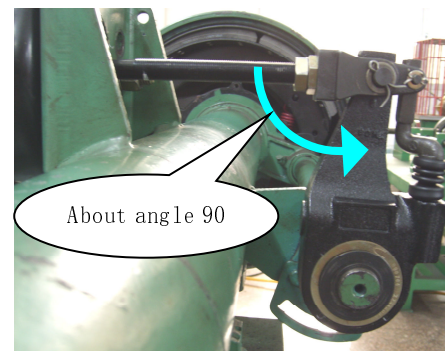


Fig 4

Auto Slack Adjuster Teardown procedures

1. Loosen the push rod nut by spanner, and remove the yoke adapter from the yoke.
2. Tear down the washer and clip of the camshaft spline.
3. Turn the worm shaft hexagon anticlockwise with 9/16" or 14mm spanner to make the auto slack separate from the chamber. At last tear down the auto slack adjuster.