



NEXUS 3 Speed Trouble Shooting Manual

- 1.Bad shifting performance
- 2.Noise
- 3.Play
- 4.Push rod can not be drawn out of axle hole.
- 5.Cannot shift out of 1st gear.


NEXUS 3 Speed Trouble Shooting Manual

1.Bad shifting performance

	Cause	Solution
Step 1	The bike is being shifted under too much load. The Nexus 3 Speed hub cannot be shifted under very high load.	Let a little load off the pedals when shifting.
Step 2	<p>A bent push rod can interfere with the axle hole.</p>  	Replace the push rod.


NEXUS 3 Speed Trouble Shooting Manual

2.Noise

	Cause	Solution
Step 1	<p>Noise all the time:</p> <p>Adjustment of the normal position (yellow line) is not correct.</p> 	<p>Make sure that the yellow mark is between the yellow lines in 2nd gear.</p>
Step 2	<p>Noise while shifting:</p> <p>The bike is being shifted under too much load. The Nexus 3 Speed hub cannot be shifted under very high load.</p>	<p>Let a little load off the pedals when shifting.</p>
Step 3	<p>Noise while braking:</p> <p>The brake shoe is worn or deformed or the grease is dried out.</p>	<p>First try greasing the brake shoes. If that does not work, replace the shoes.</p>

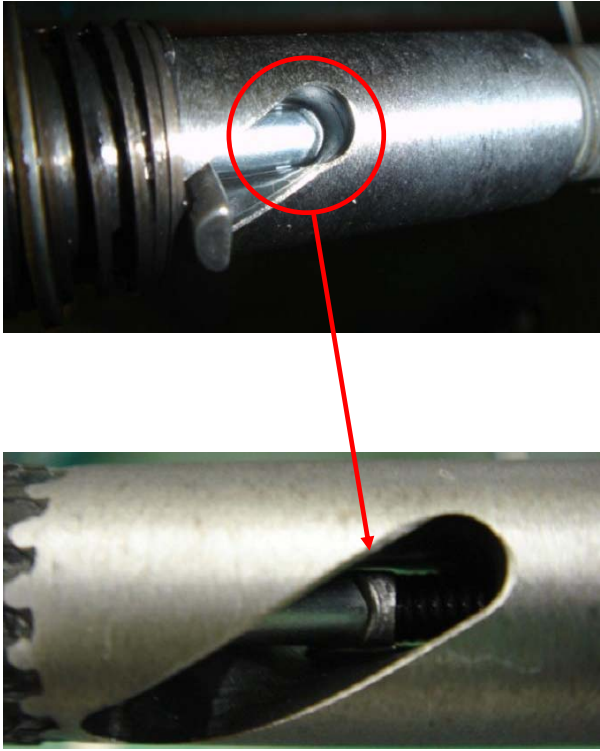
NEXUS 3 Speed Trouble Shooting Manual

3.Play

	Cause	Solution
Step 1	Check to make sure the non-turn washer is attached. If it is not, the axle can be turned by driving force damaging the bearing races.	Next step
Step 2	<p>Check the bearing races for damage (L/H Cone, Hub shell, Driver, R/H Cone).</p> 	<p>If the bearing races are not damaged simply install the non-turn washer.</p> <p>If the bearing races are damaged, replace the affected parts. Be sure to use the non-turn washer when reinstalling the hub on the frame.</p>

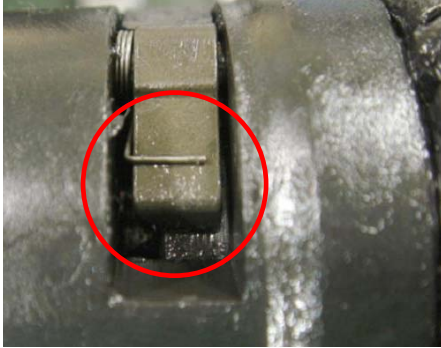
NEXUS 3 Speed Trouble Shooting Manual

4.Push rod cannot be drawn out of axle hole.

	Cause	Solution
Step 1	<p>The push rod or axle is bent and the push rod cannot be drawn out even with force.</p> 	<p>Replace the push rod and internal assembly.</p>

NEXUS 3 Speed Trouble Shooting Manual

5. Cannot shift out of 1st gear.

	Cause	Solution
Step 1	<p>Paw B in the ring gear fell into the serration and was damaged.</p> 	<p>Replace the internal assembly.</p>