

05U-065

From: St-Cyr Francis
Sent: Monday, February 14, 2005 3:43 PM
To: Cooke, Barbara
Cc:
Subject: Reference EQ05-002
Importance: High

Hello Mrs. Cooke,

As discussed this afternoon and from the emails below, NovaBus has been cooperating with Arvin Meritor to inform its customers of the defects in the tie rod assemblies and will not file its own 573. Pursuant to Arvin Meritor's 573, we have provided the VIN serial #'s and are in the process of distributing the instructions (attached in this email) to our customers. This process will be complete early next week.

Please do not hesitate to contact me if you require any further information.

Best Regards,

Francis St-Cyr, P.Eng, MBA
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All 12 axles have been installed on 3 different fleets from Ontario Operators.

If my understanding of the process is correct, once you received these #, you will transfer us the pertinent document of this Campaign. Nova Bus have reserved an internal number to distribute to our customers once you will allow us.

Please send the confirmation, authorization, ... to me.

I am in charge in Nova Bus of releasing public documents to our customers (Campaign, Bulletins, Product Improvement,...)

Thanks

Guy Plante, P. Eng
Field Service Engineer
Nova Bus

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Retro Fit Data Required					Retro Fit Complete By:	
Vehicle Vin Number	Vehicle In Service Date (if applicable)	Retro Fit Location(Oem/End User)	Date Retro Fit Completed	Mileage at Date of Completion	Company	Technician Name
2NVYL82U843000157	2004SE24					
2NVYL82U643000156	2004SE24					
2NVYL82U443000155	2004SE24					
2NVYL82U843000160	2004SE28					
2NVYL82U143000159	2004SE28					
2NVYL82U643000158	2004SE27					
2NVYL82UX43000161	2004SE29					
2NVYL82U343000163	2004SE30					
2NVYL82U143000182	2004DC04					
2NVYL82U243000252	2005JA12					
2NVYL82U043000251	2005JA05					
2NVYL82U943000250	2005JA05					

Total	12
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Urresko Clamp Replacement Procedures and Instructions
CL2225 Clamp
Revision Date: 12/7/04

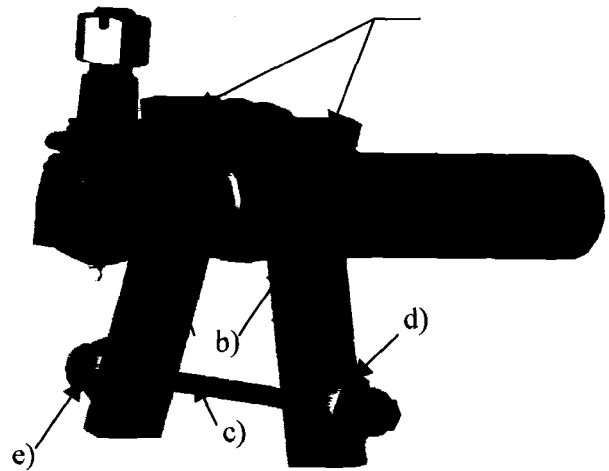


Service Kit Contents:

- 1- Replacement CL2225 Clamp**
- 1- Replacement 2.5' x 5/8 in. Bolt**
- 1- Replacement Nut**

Clamp Removal Tooling Kit Contents:

- a) 2- Pivot Bolts**
- b) 2- Metal Support Brackets**
- c) 1- 3/8 in Feeder Screw**
- d) 1- Spherical washer.**
- e) 1- 3/8 in. Spherical Nut**
- f) 4" x 1/2" Draw Bolt, Washer, & Nut (Not Shown)**

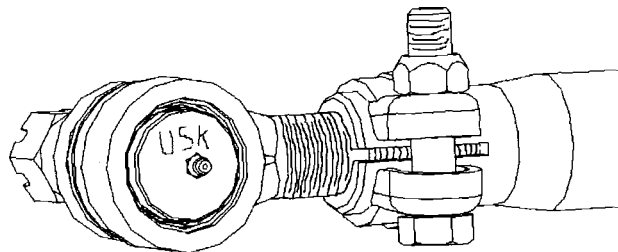


Note: All replacement clamps will have a "P" stamping on the side of the clamp.

Note: The replacement CL2225 Clamp will have a green dot on the top of the clamp to prevent misidentification.

Step 1- Inspection.

Verify that the tie rod assembly is manufactured by Urresko. There is a USK stamped into the ball stud cover. See figure Below:



If the tie rod assembly is verified not to be Urresko, clamp change out is not required. Record vehicle vin number and axle serial number and other data as required to verify inspection was completed.

Warning: Clamps provided in the service kit will not properly fit tie rod assemblies other than Urresko.

If the tie rod assembly is verified to be Urresko, both the left and right side clamps require replacement. Go to Step 2-Clamp Replacement.

Step 2-Clamp Replacement

Warning: The clamp replacement must be completed on one side before proceeding to the other side. Loosing both clamps may cause vehicle misalignment and improper toe.

Warning: The replacement clamp must be installed in the same orientation as the current clamp. Orientations may be clamp leg bolt down or to the rear. Improper orientation will cause interference at vehicle max turn angles and damage to components. Examples used in these instructions show the cap leg bolt in the down position only.

Clamp Replacement Instructions:

1.- Prior to disassembly record clamp orientation. Remove bolt and nut. Destroy and Discard bolt and nut. Figure 1.

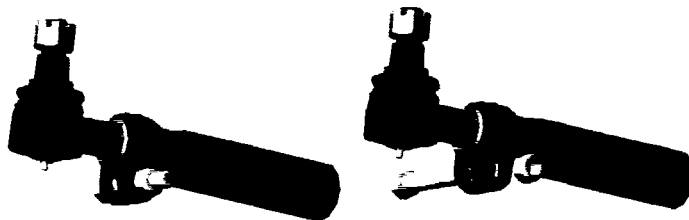
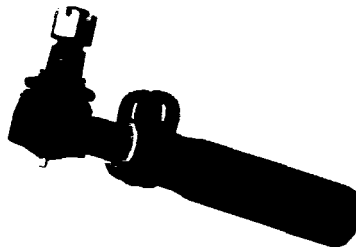


Figure 1

2. After clamp is loosened rotate the clamp only 180 degrees to the top of the cross tube.

Warning: Do not rotate the tie rod end or cross tube.



3.- Install removing device in clamp. Figure 2.

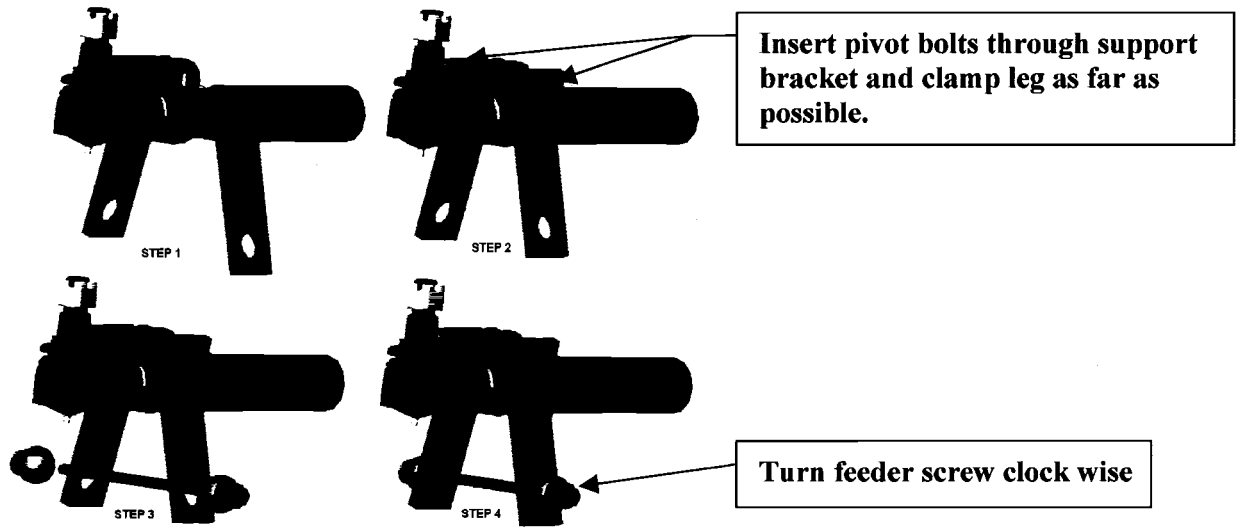


Figure 2

4.- Tighten the feeder screw until the clamp legs spread enough to remove from the cross tube. Figure 3.

5.- Remove clamp and device. Destroy and Discard clamp. Tooling can be reused. Figure 3.

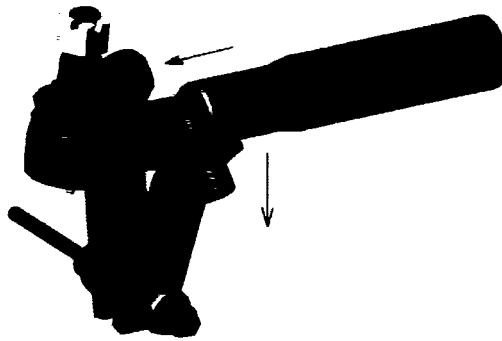


Figure 3

6.- Replacement clamp installation:

- a).- Install replacement clamp over the threaded area of the tie rod end (smaller diameter).**
 - b). Move clamp over the cross tube to the same orientation as recorded in number 1 above. Internal slot of clamp must match tube guides.**
 - c). The clamp bolt holes should be in same orientation as the original clamp.**
- Figure 4.**

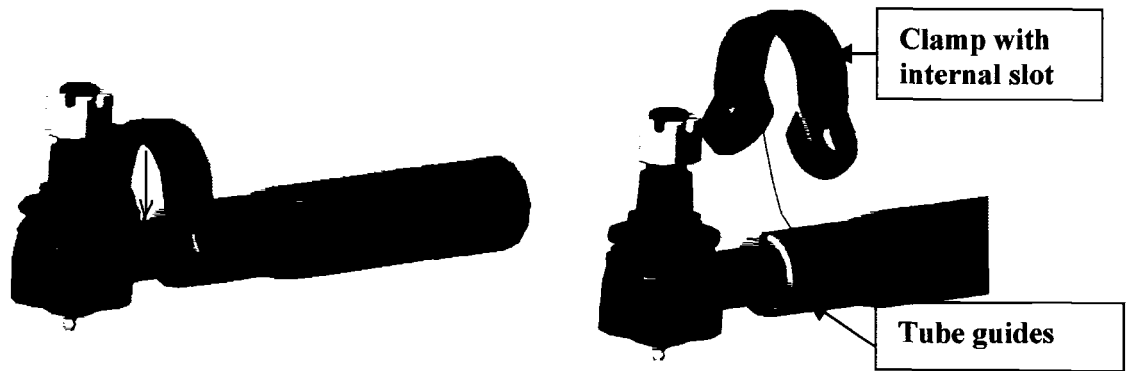


Figure 4

- d).- Install the 4" x ½" UNF draw bolt provided in the tool kit through the clamp bolt holes.
- e). Install nut to bolt.
- f). Tighten bolt and nut to an approximate gap between the clamp legs of 0.75". Figure 5 shows clamp bolt in down position, other orientations may exist.



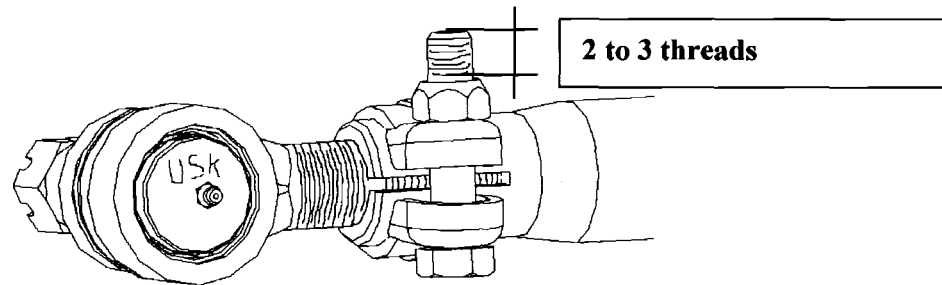
Figure 5

- g).- When the clamp legs are closed to an approximate gap of 0.75", remove the bolt, washer, and nut.
- e).- Install the 2.5 in"x 5/8" bolt and nut provided in the service kit. Tighten the nut to 60 – 80 ft lb. Figure 6 shows clamp bolt in down position, other orientations may exist.
- f).-After tightening clamp bolt tap gently on the head of the clamp bolt to make sure there is no movement in the clamp and that it is tight.

Warning: 2 to 3 threads must be exposed to ensure the clamp is properly tightened.



Figure 6



Step 3-Record and Report vehicle vin number, axle serial number, and other data as required to verify that clamps have been replaced.

Note: Questions or clarifications to these instructions can be addressed to:

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