



Subject: Carousel Scale New Center Bolt Design

Overview

There has been an issue in the field with the Carousel Scale (Scaletron/RL Scales) giving fluctuating weight readings or not holding calibration. In some cases the Center Bolt can be over torqued causing it to be screwed down against the Load Cell.

This affects the following scales: SCL-1016, SCL-1016A.

Solution

The existing Center Bolt will have to be removed and replaced with the new Center Bolt, using a Locking Pin. Care should be taken when installing or servicing the Carousel Platter to ensure that it is assembled correctly. See instructions below.

- The new supplied Center Bolt has a pinned lower nut to ensure that it will not turn.
- The new design allows the Acorn Nut to tighten against the top of the Center Bolt and allows positive clearance between the Bag Rack Base and the bottom of the Acorn Nut.
- The previously used Upper Bearing must not be used with this new Center Bolt.

Upgrades

All new Carousel U-Scan units built after October, 2006 will have this new Center Bolt included. A new Center Bolt Kit has been created and should be installed in the field on an As-Needed or Next Visit basis.

SCL-15001479 Center Bolt Kit

This kit includes the following parts:

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| 11001479 | Bolt, ½-13 Thread with Pinned Lower Nut and Upper ‘Nylock’ Lock Nut |
| WAS-1006 | Flat Washer, Ø1/2”, Stainless Steel (2) |
| WAS-1009 | Thrust Needle Roller Bearing |
| NUT-1005 | Acorn Nut, ½-13, Stainless Steel |

Assembly Instructions

Reference the Illustration below.

1. If not already done so, remove the Bag Racks, Bag Rack Base, Platter, and Center Bolt from the Upper Scale Frame.
2. Install the Center Bolt. Note that the Pinned Nut is on the ‘bottom’ end, and this ‘bottom end’ is installed into the Scale Frame. Secure with wrench.
3. Add the Flat Washer, then the Thrust Bearing on top of Upper Lock Nut.
4. Add the Platter.
5. Replace the Bag Rack Base and Flat Washer. Secure assembly with the Acorn Nut and tighten.
6. Verify an approx 1/16” gap between the Acorn Nut and the topline of the Bag Rack Base.
 - a. A coin (Quarter) should be able to fit snugly between the Platter and the Acorn Nut.
7. If the Acorn Nut tightens onto the Platter before bottoming to the top of the Bolt (no Gap) or there is excess Gap, then remove the Platter and adjust the Upper ‘Nylock’ Lock Nut ¼ to ½ turn and return to step 5 until proper clearance is achieved.
 - a. The Upper ‘Nylock’ Lock Nut should be positioned correctly when received for most installations.

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