

AMT12 Loose or Broken H-Brake Assembly Bolt

Applies To

AMT12 Fixed and Open Stride Series Adaptive Motion Trainer models: 813, 823, 833, 835, and 885

Issue

There are two H-Brake Assembly bolt issues and corrective actions respectively:

- **Loose H-Brake Assembly Bolt**
- **Broken H-Brake Assembly Bolt**

On certain AMT12 units, the H-Brake Assembly Bolt can become loose and if not retightened to OEM specified torque will continue to loosen causing the H-Brake Assembly Bolt to break. The broken H-Brake Bolt will cause additional damage to the H-Brake Assembly, Stride Dial Sensor Assembly, and associated frame attachment points.

Symptoms:

Loose H-Brake Assembly Bolt

- Clunking or high pitch screeching sound with every stride.
- Strides/workout feels wrong with forward and backward stairarm motion.
- Loss of forward and backward motion from the stairarms.

Broken H-Brake Assembly Bolt

Additional indicators of a Broken H-Brake Assembly Bolt:

- More pronounced symptoms associated with a Loose H-Brake Assembly Bolt
- Failed Stride position indicator.

Resolution

Use the following criteria to determine whether this is a Loose or Broken H-Brake Assembly Bolt issue. Then perform the instructed procedure to resolve the issue.

Remove the AMT12 covers and visually inspect the condition of the H-Brake Assembly and Bolt:

1. If the H-Brake bolt head is seated properly against the washer-frame, then set the torque wrench to **40 ft-lbs** (54 N-m) and verify the following criteria:
 - a. If the H-Brake bolt rotates noticeably before reaching the torque setting (wrench breaks or clicks), proceed to the "*Loose H-Brake Assembly Bolt Repair Procedure*".
 - b. If the H-Brake bolt does not rotate before reaching the torque setting (wrench breaks or clicks), re-torque the H-Brake bolt to OEM specified value of **50 ft-lbs** (68 N-m)
2. If the H-Brake bolt head is not seated properly against the washer-frame then remove the H-brake input assembly and inspect the H-Brake bolt receiving threads for damage (7/16"-14 frame bolt threads):
 - a. If the threads are not damaged then proceed to the "*Loose H-Brake Assembly Bolt Repair Procedure*".
 - b. If the threads are damaged then proceed to the "*Broken H-Brake Assembly Bolt Repair Procedure*".
3. If the H-Brake Assembly bolt is broken, proceed to the "*Broken H-Brake Assembly Bolt Repair Procedure*".

Procedures

Loose H-Brake Assembly Bolt Repair Procedure

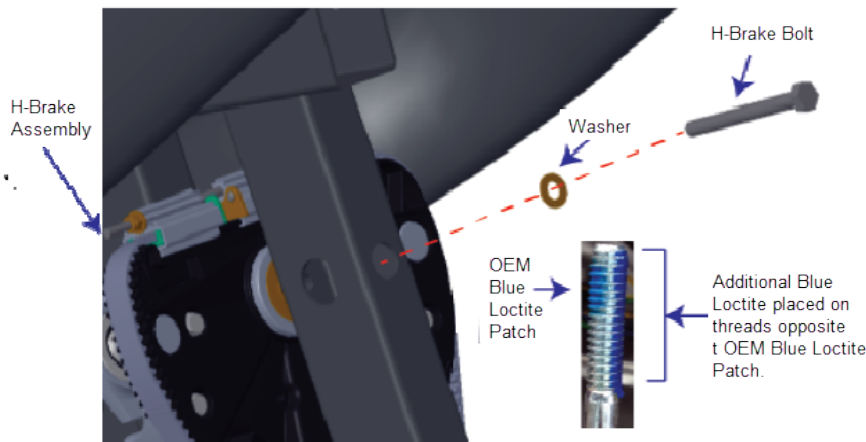
A loose H-Brake Bolt issue requires installing a new replacement H-Brake Assembly Bolt.

Tools

Quantity	Description
1	#2 Philips screwdriver
1	5/8" Socket and Drive Ratchet
1	Torque Wrench with 50 ft-lbs (68 N-m) range.

Parts

Quantity	Part Number	Description
1	PPP00000HCCE044400	HHCS,7/16-14 X 4.00,NYLOCK,GR5 STL,CLR ZN
1	PPP00000WBCN044007	WASHER,FLAT,SAE TYP A,7/16,STL,CLR ZN



Install new replacement H-Brake Assembly Bolt

1. Remove the loose H-Brake Bolt.
2. Inspect the weldment frame H-Brake Bolt receiving threads for damage prior to reinstalling the new H-Brake bolt. If the threads are damaged, skip this procedure and go to the *"Broken H-Brake Assembly Bolt Repair Procedure"* for instruction.

Caution Make sure that the weldment frame H-Brake Bolt receiving threads are not damaged prior to reinstalling a new H-Brake bolt. Do not install a new H-Brake Bolt into damaged weldment frame threads.

3. Apply 2-3 drops of blue loctite ONLY on the threads opposite the OEM Blue Loctite patch. Install new H-Brake Bolt and torque to **50 ft-lbs (68 N-m)**.

Broken H-Brake Assembly Bolt Repair Procedure

A Broken H-Brake Bolt issue requires replacement of the H-Brake Assembly, H-Brake Bolt, and associated parts including: new modified H-Brake Input Assembly and H-Brake Bolt, replacement Stride Dial Sensor Assembly and H-Brake Belt Assembly.

To complete repairs, order the following Tool and Part kits.

Part Number	Description
Kit 58105-101	AMT12 H-brake Bolt Repair Tools
Kit 58104-101	AMT12 H-Brake Bolt Repair Kit
Note: The repair procedure is included with Kit 58105-101.	

Contact Information

Please contact Precor Customer Support with any questions regarding this service bulletin @ 1-800-786-8404.