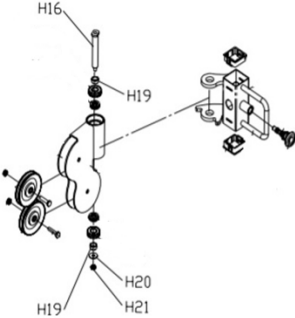
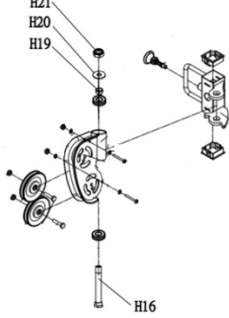
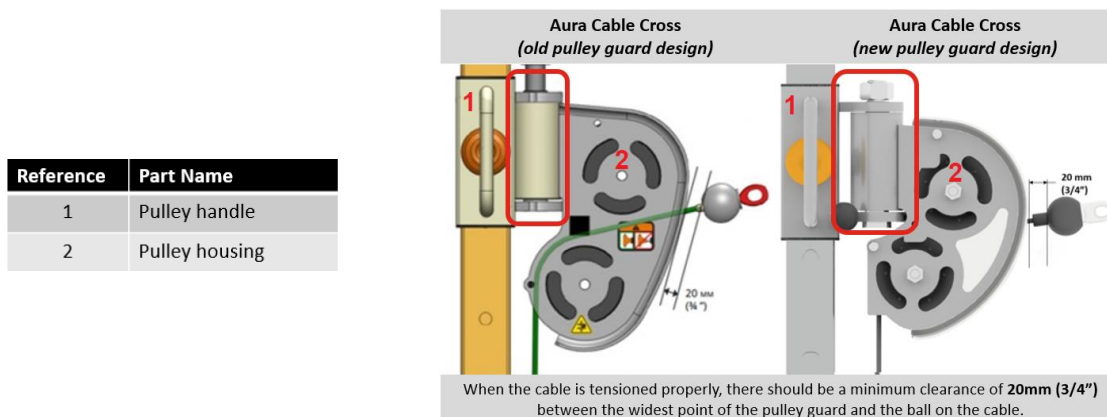
	Service Bulletin: Aura Cable Cross Adjustable Pulley Hardware Upgrade (Accompanying video: https://youtu.be/ucayW2hdD9U)
Prepared By: Brian Nelson, Dakota Freeman, John Guld & Regina Templeton	Date Prepared: April 8, 2021
Time Required: 20 Minutes	Models Affected: G3MS24, G2/G3MS20, G2/G3MS40, G2/G3MS50 & G2/G3MS80

Overview

The hardware and procedure to attach the pulley housing to the handle on an Aura Cable Cross Adjustable Pulley station has changed. **G2 and G3 Multi-Station Adjustable Pulleys that were manufactured between February 2005 and January 2019 should be upgraded to the new design.** This does NOT include Functional Trainers.

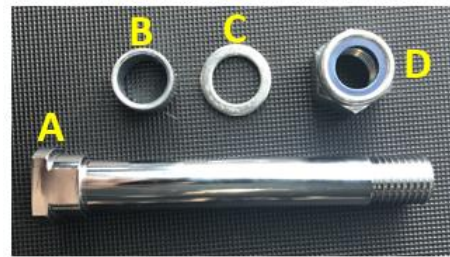
Old Design			New Design		
					
Ref	Part #	Part Name	Ref	Part #	Part Name
H16	009249-D	Sleeve	H16	1000398066	Sleeve
H19	009354-A	Stopper	H19	009354-A	Stopper
H20	005058-00	Washer	H20	005031-AC	Washer
H21	004945-00	Nyloc nut	H21	1000399550	Nyloc nut

(The pulley housing design has also changed, as shown below, but both housing designs are acceptable.)



Required Tools

- Hammer
- Super Lube with PTFE grease
- 17mm deep well socket
- Two medium adjustable wrenches (or two 17mm open-end wrenches)
- Two ratcheting wrenches with 4mm Allen sockets (or two 4mm Allen keys)
- Rubber mallet
- Punch
- Ruler
- Rag
- Kit 1000461149



Hardware to Remove

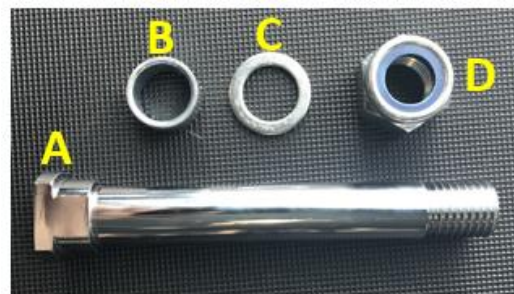
- A – Sleeve
B – Stopper x2
C – Washer
D – Nyloc nut



Hardware to Install

Kit **1000461149** contains:

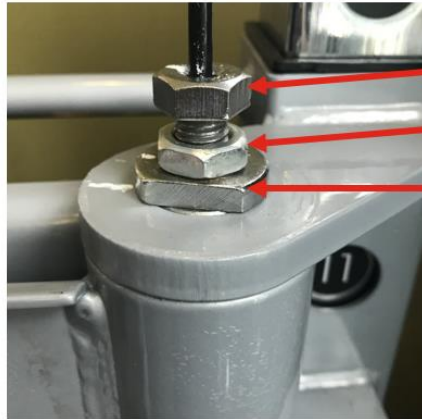
- A – Sleeve: part # 1000398066
B – Stopper: part # 009354-A
C – Washer: part # 005031-AC
D – Nyloc nut: part # 1000399550



Procedure

Remove the Old Hardware and Adjustable Pulley

1. Move the adjustable pulley to a comfortable height to work on it. Loosen the jam nut, then turn the cable bolt out to disconnect the cable from the sleeve.



- Cable bolt
- Jam nut
- Sleeve

2. Use one wrench to hold the sleeve in place while using the other wrench to remove the nyloc nut and washer from the sleeve.



- Sleeve
- Nyloc nut & washer

3. Use a hammer to tap the sleeve upward. Remove the sleeve.



4. Remove the pulley housing from the handle. You may need to use a rubber mallet to get it started. **Do not use a metal hammer or you will damage the paint.**



Put your hand under the adjustable pulley as you remove it from the handle to hold the hardware in place/prevent it from falling out the bottom.

Note: If the hardware **does** fall out, see the instructions in Step 8 for the order in which to reassemble it.

5. Use the 17mm deep well socket and a hammer to remove the two stoppers. Pound the top stopper down and the bottom stopper up to remove them.

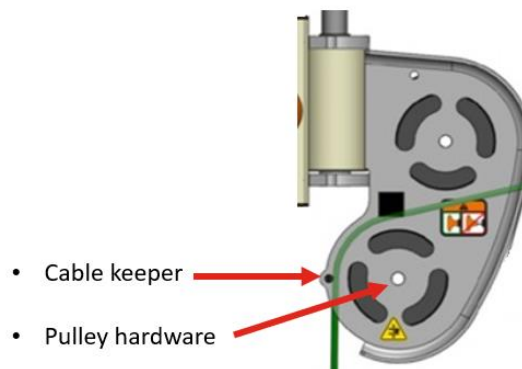


- Top stopper
- Bottom stopper



Prep the Adjustable Pulley

6. Use the two 4mm Allen keys to remove the bottom cable keeper from the adjustable pulley. Then use the two wrenches to remove the bottom pulley hardware. Remove the pulley from the housing.



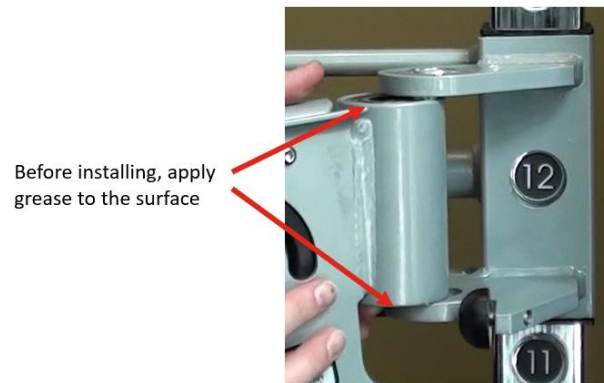
- Cable keeper
- Pulley hardware

Install the New Hardware and Adjustable Pulley

7. Spread a dab of grease on the new stopper. Use the 17mm deep well socket to hammer it into the top hole. Stop when the stopper is flush with the surface on the inside.



8. Add grease to the top and bottom of the adjustable pulley housing. Install the adjustable pulley back into the handle.



Note: If the hardware from inside the adjustable pulley falls out—clean, grease, then reinstall the hardware in the order shown below. The side shown facing up should be turned over and installed downward into the adjustable pulley.



Install in this order:

1. Bearing
2. Washer
3. Ball Bearing
4. Bushing

9. Lay the adjustable pulley on its side and push the 17mm deep well socket into the pulley housing to make the sides flare. This creates more room to install the sleeve in the next step.



10. Pick up the adjustable pulley, making sure to hold in the hardware at the bottom. Slide the pulley into place on the handle.
11. Grease the new sleeve and install it from the bottom to fasten the pulley to the handle.

Important: It may feel like the sleeve is too big to fit through the bottom bushing (as shown below). Use a hammer to help drive the sleeve through the bottom, and then through the top bushing. (The deep well socket—still inside of the housing—should allow enough room for the sleeve installation. If the pulley housing is still in the way and it is difficult to hammer the sleeve directly, use a punch against the sleeve.)

- New sleeve. Make sure to grease before installing.



12. Stop hammering when you see a few threads of the sleeve showing at the top.



13. Remove the socket from the pulley housing.

14. Install the new washer and new nyloc nut on the sleeve. Place the nyloc nut so that the blue side faces up. Hold the sleeve at the bottom and tighten the nut with a wrench until one thread is showing through the top of the nut.



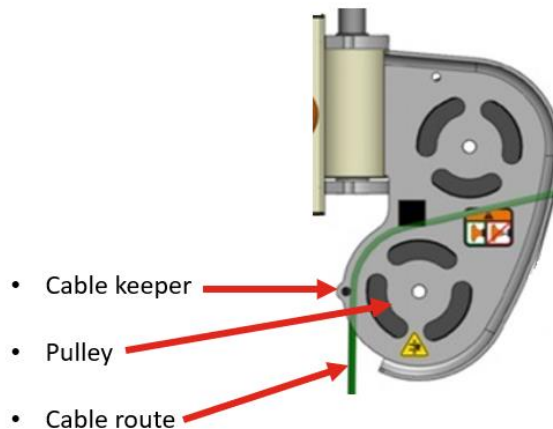
- New nyloc nut
- New washer



15. Install the cable bolt on the new sleeve, just enough to keep it in place. (You will tension the bolt correctly in Step 17.)



16. Put the pulley back in place inside the housing and secure it with the hardware. Then, reinstall the cable keeper. **Make sure to route the cable on top of the pulley, but under the cable keeper, as shown below.**



- Cable keeper
- Pulley
- Cable route

Tension the Cable Bolt

17. Tension the cable bolt following the procedure below.

Important: A minimum of $\frac{1}{2}$ " (13mm) of the cable bolt must be engaged into the adjustable pulley sleeve.



Remove and measure the cable bolt. Measure from the top of the bolt head to the bottom of the bolt. Note the bolt length as you screw the bolt into the sleeve (axle). A minimum of $\frac{1}{2}$ " (13mm) must be engaged into the sleeve (axle) at all times.

- Remove the cable bolt.
- Turn it down so that $\frac{1}{2}$ " of engagement is achieved.
- Tighten the jam nut using an adjustable wrench.
- Check the cable ball end measurement. Proper tension should leave **20mm of clearance** at the widest point on the pulley guard as shown below.
- Adjust the cable bolt down as needed. Always tighten the jam nut with a wrench when you are done.

