

**Date Created:** 22/10/2020

**Product:** Snake

**Title:** Remote Unlock Replacement



**SAFETY!** Before attempting to make any adjustments or carry out maintenance on the mower, review the hazard identification table (section 3a of your Operator Manual) and take all necessary precautions.



Position the Snake S2 on a smooth, hard, level surface.

Ensure the surrounding area is clear of obstructions and people.



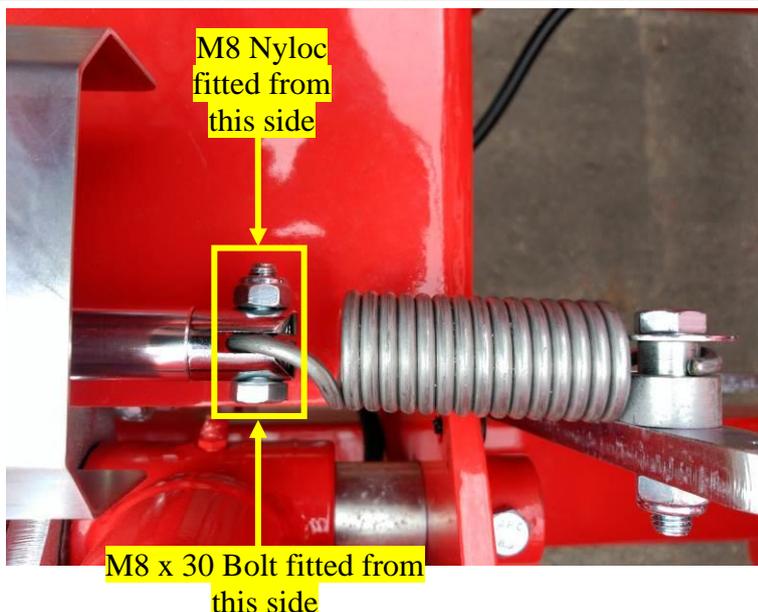
Prior to continuing this procedure, isolate the Tractor power supply.

**DO NOT** work on live electrical equipment, as this is dangerous and may cause damage to electrical components and/or injury!

**Caution:**

Circuitry supplied suits **12-VOLT NEGATIVE EARTH SYSTEMS ONLY!**

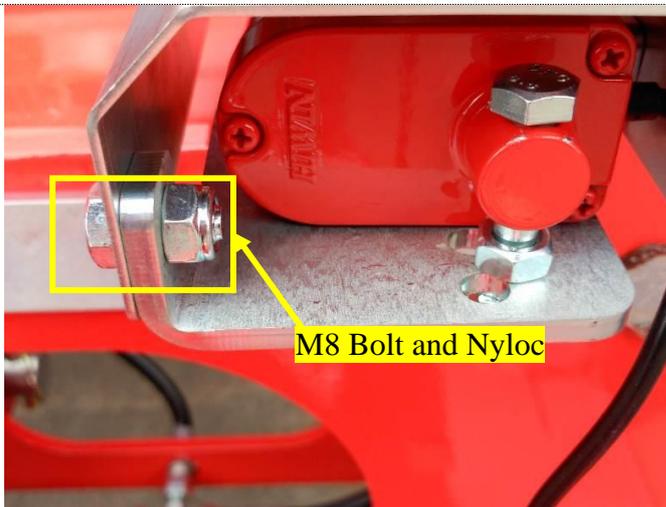
Trimax or its agents will not be held liable for any damage or warranty claims occurring because of improper wiring!



If the Actuator is functioning, power the Actuator to extend the Actuator Spear.

Undo M8 Nyloc and M8 Bolt attaching the Actuator Spear to the Spring.

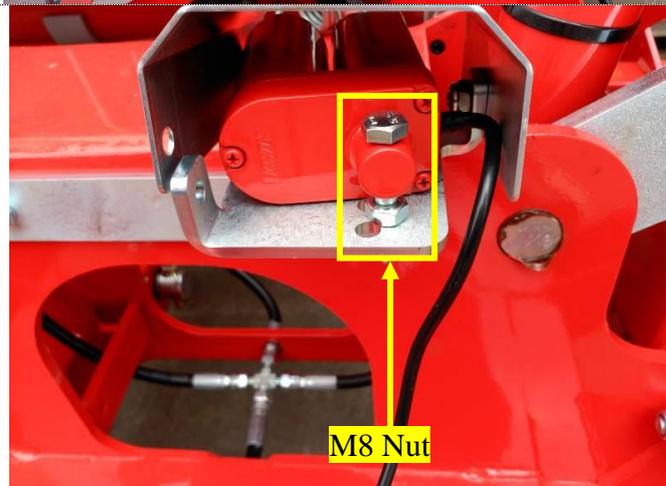
If not, then take care while removing The M8 Nyloc and M8 Bolt.



Undo M8 Bolt and Nyloc keeping the cover in place.



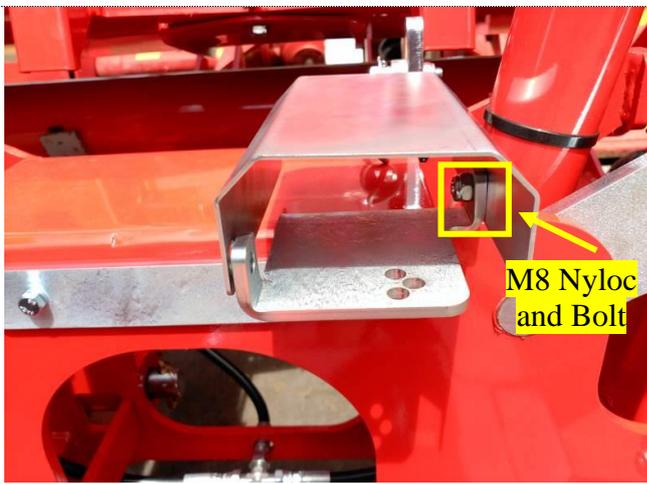
Tilt the Unlock Actuator Shield Backwards.



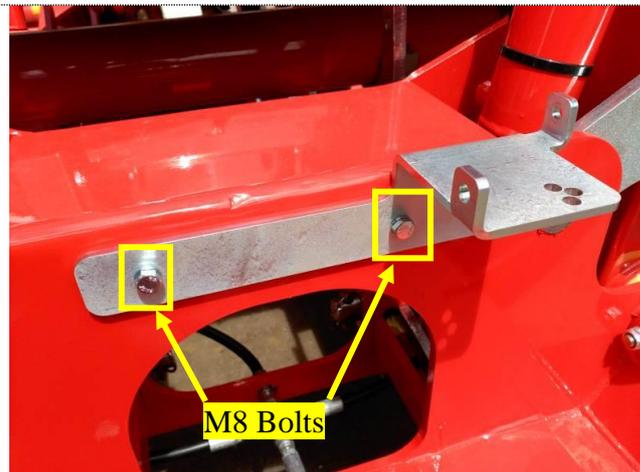
Undo the Nut securing the Actuator to the Mounting Bracket.



Remove the Unlock Actuator by disconnecting the plug from the wiring harness and pulling it out of the Bracket/Shield assembly.



Unbolt the M8 Nyloc and Bolt fastening the Unlock Actuator Shield to the Actuator Mounting Plate.



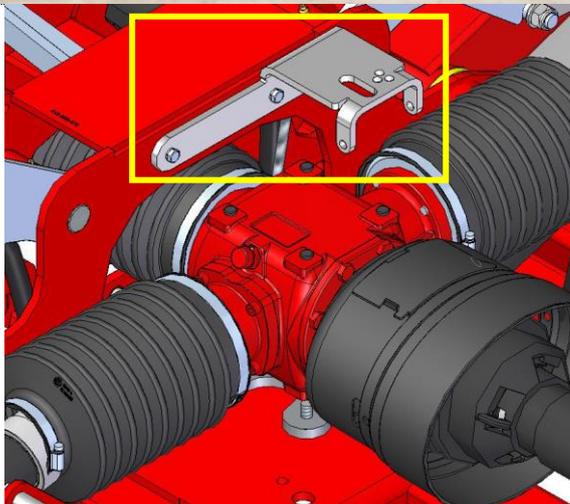
Undo the M8 Bolts securing the Unlock Actuator Mounting Bracket to the front of the Ram Towers.



Prepare the M8 x 20 Bolts used to mount the Unlock Actuator Mounting Bracket.

Fit an M8 Spring Washer over both Bolts.

Apply thread locking compound such as [Loctite 243](#) to the thread of each Bolt.



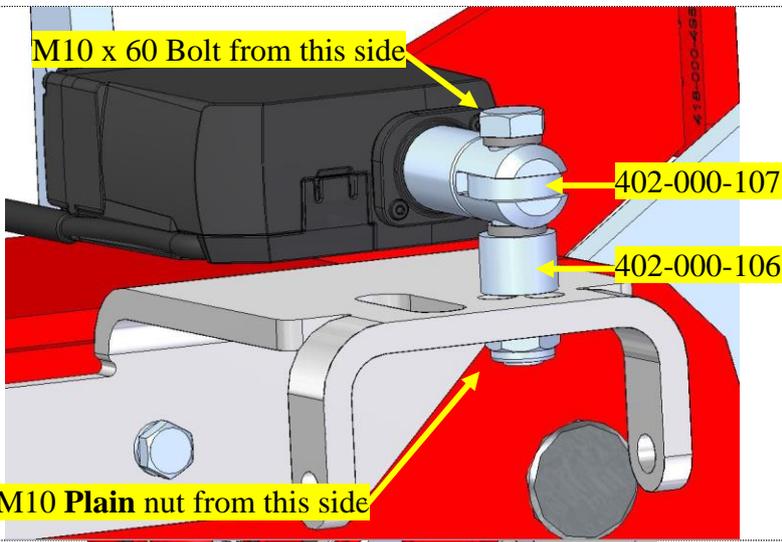
Offer up the new Unlock Actuator Mounting Bracket (**418-000-767**) to the **FRONT** of the Ram Tower.

Secure in place using two M8 x 20 Bolts and two M8 Spring Washers. The Bolts **MUST** be fitted from the outside! Fully Tighten.



**Note:**

Ensure that the Bracket is fitted **SQUARE** to the Ram Tower on the Chassis!

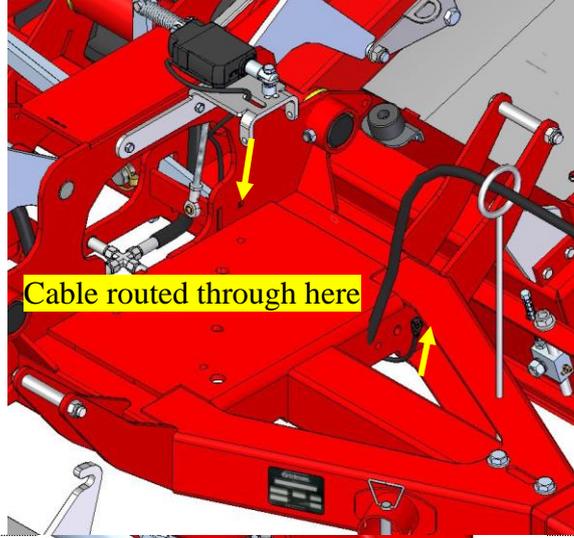


Prepare the Unlock Actuator (421-000-093) by fitting an M10 x 60 Bolt and the two spacers (402-000-106 and 402-000-107).

Fit the bolt through the **MIDDLE** hole and secure with an M10 Plain nut. This will be replaced with a Nyloc later in the procedure after testing.

The M10 x 60 bolt **MUST** be fitted in the direction shown!

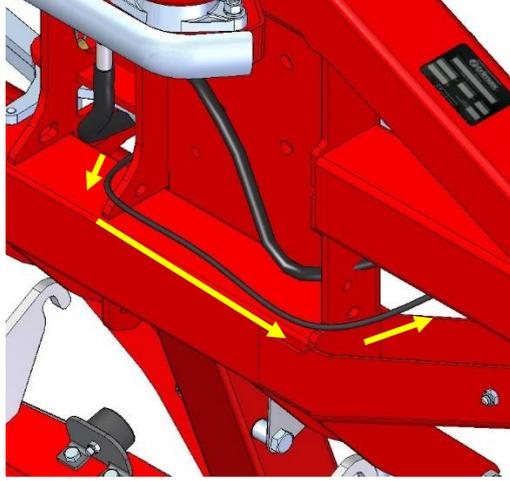
M10 Plain nut from this side



Feed the Cable through the slot located in the bottom of the Unlock Actuator Bracket. Down along the Ram Tower and under the Gearbox Mount Plate.

Some parts have been hidden for clarity.

Cable routed through here

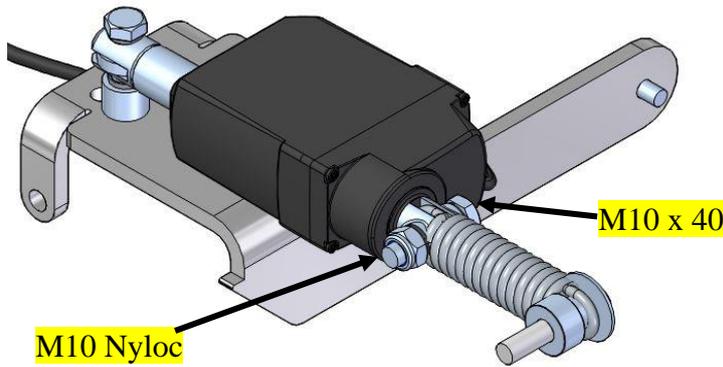


Feed the Cable through under the Gearbox Mount Plate. Then use cable ties to secure the cable in place. Use Adaptor (421-000-170) to connect actuator cable to the existing wiring harness.



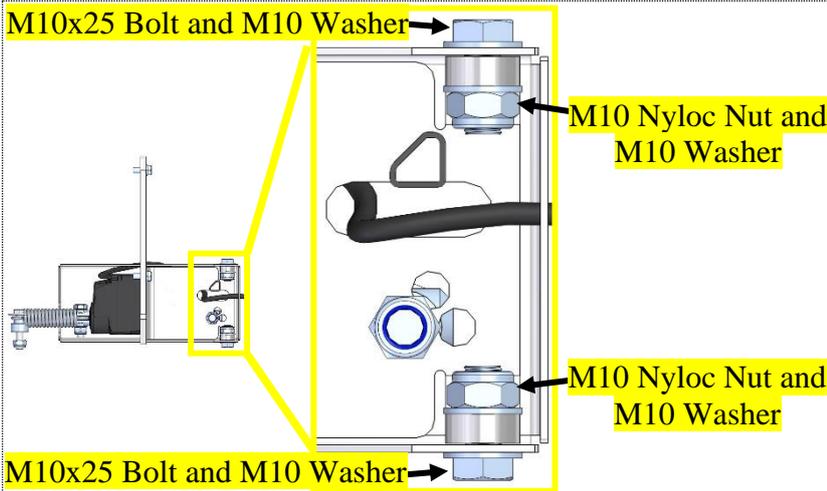
Feed the Wiring and Main Hose Bundle back through the Rope and Hose Guide.

Wiring and Hose Bundle through Rope and Hose Guide



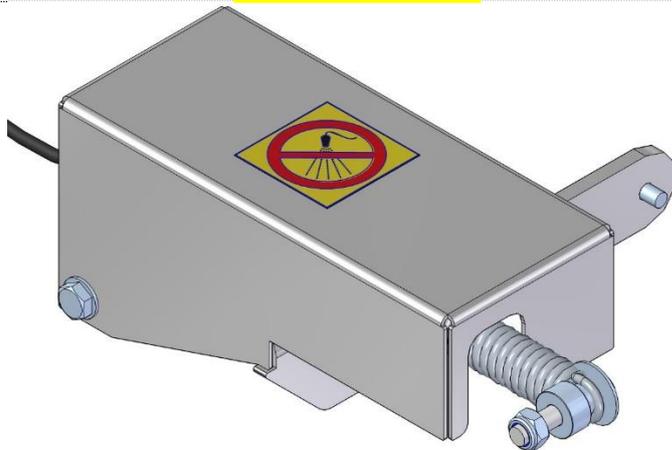
Fasten the Unlock Actuator (421-000-093) to the spring with an M10 x 40 hex bolt and M10 Nyloc Nut.

Tighten to Secure. Do not overtighten.



Fit the Unlock Actuator Cover (410-000-353) with two M10x25, two M10 Nyloc Nuts, and four M10 washers.

Unlock Actuator system shown as viewed from below.



Apply the Small Wash Warning Decal (424-000-163) to the top of the Unlock Actuator Cover (410-000-366).

Ensure that the Decal is Square with the Shield and bubble free!



Connect the Extension cable to the Unlock Actuator. Connect the Remote Unlock Control Unit to the 12v Tractor auxiliary power supply. When safe, switch on the tractor power.



**Note:** Ensure your tractor Auxiliary Power Socket polarity and voltage are as shown. Socket as seen on tractor.



Connect the mower to the tractor hydraulic port.

With the Locks lowered, Test the Unlock Actuator.

Lower the Decks back down to the Ground.



**Note:**

If the Locks do not engage correctly, reposition the actuator to one of the alternate mounting holes!



Raise the Locks by depressing the Button on the Control Unit.

Raise the Decks to their maximum position.

Lower the Locks by Releasing the Button on the Control Unit.

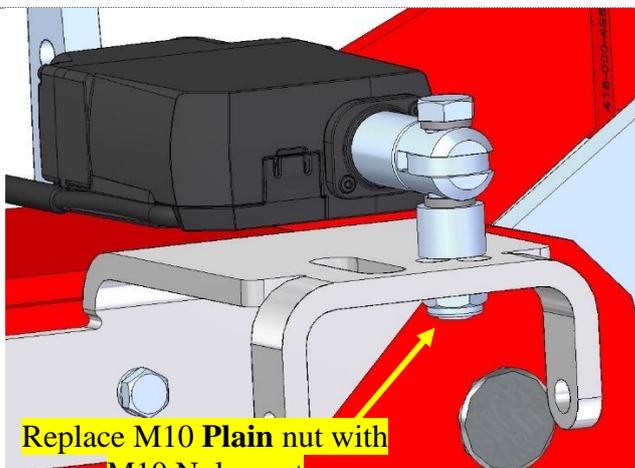
Lower the Decks, and then check that all three Locks are engaged correctly.



**Note:**

If the Locks do not engage correctly, reposition the actuator to one of the alternate mounting holes!

You can tell it is incorrectly positioned if either there's too much tension on the spring when the actuator is fully extended, or that the spring has too much slouch when the actuator is fully contracted.



Replace the M10 Plain Nut with an M10 Nyloc Nut.

This process is now complete.

