

Date Created: 02/07/2019

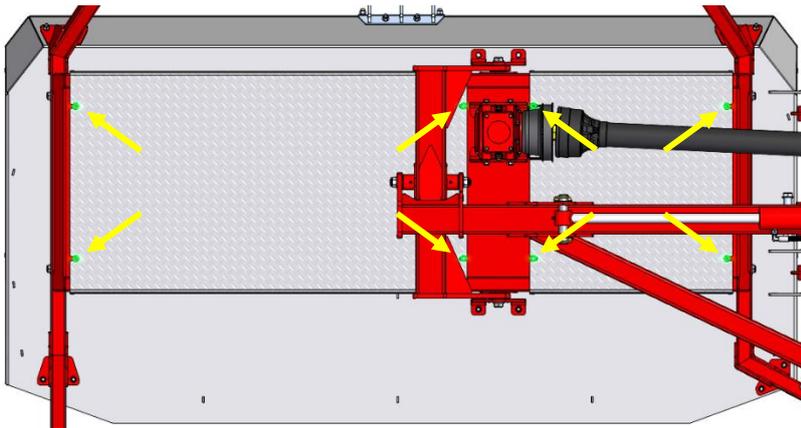
Product: Vulcan

Title: Vulcan belt replacement



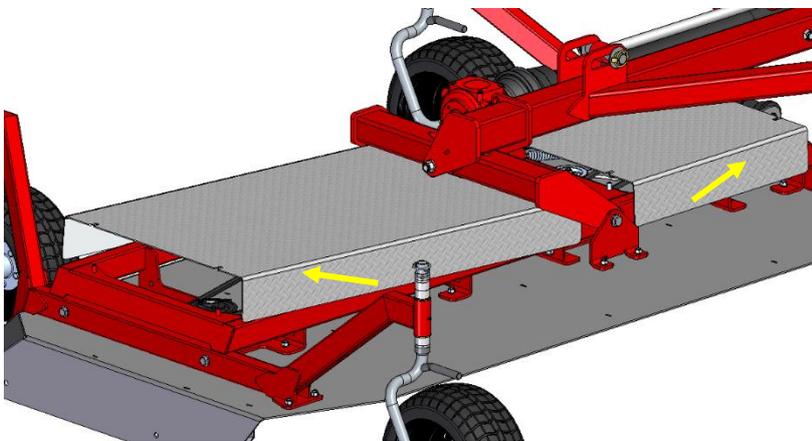
SAFETY! Before attempting to make any adjustments or carry out maintenance on the mower, review the hazard identification table (section 3a of your Operator Manual) and take all necessary precautions.

Belt removal instructions – Left Deck



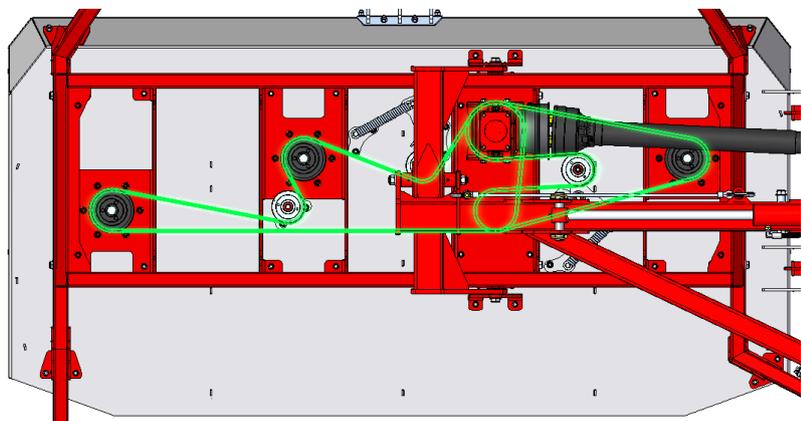
Using a 19mm (3/4") socket or spanner, remove the Transmission Covers from the Deck.

There are 2 Covers per Deck, and 4 nuts per Cover. These nuts are highlighted in **green**.

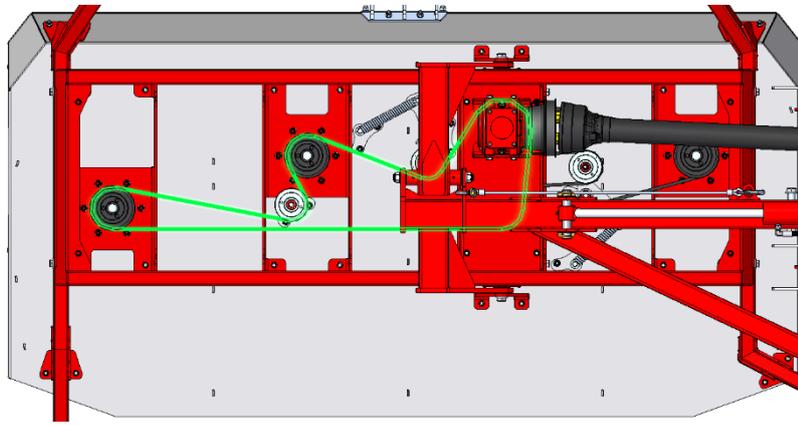


Remove the Transmission Covers by sliding them out. They may need to be removed at an angle, as shown.

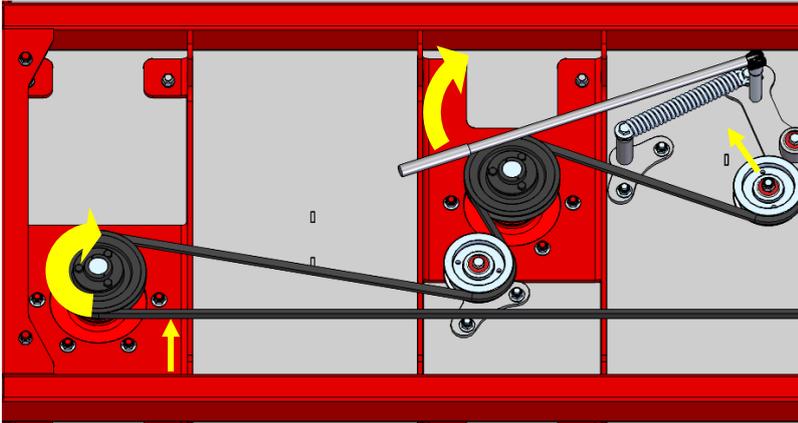
If any Belts have snapped, simply remove these and dispose of them.



The Left-Hand Deck Belt layout is shown.



The first Belt to be removed is shown in **green**.



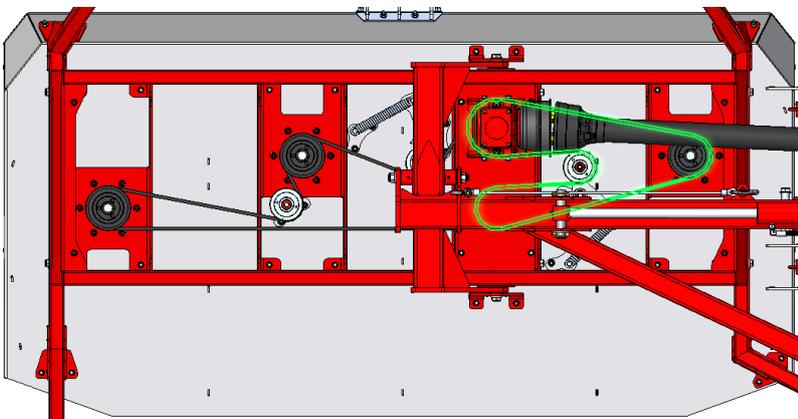
To remove the Belt, begin by having a second person apply tension to the Idler Arm and Spring with a Power Bar with ½" drive, as shown. This will slacken the Belt enough to remove it.

Remove it by rotating the pulley and pulling up on the belt.

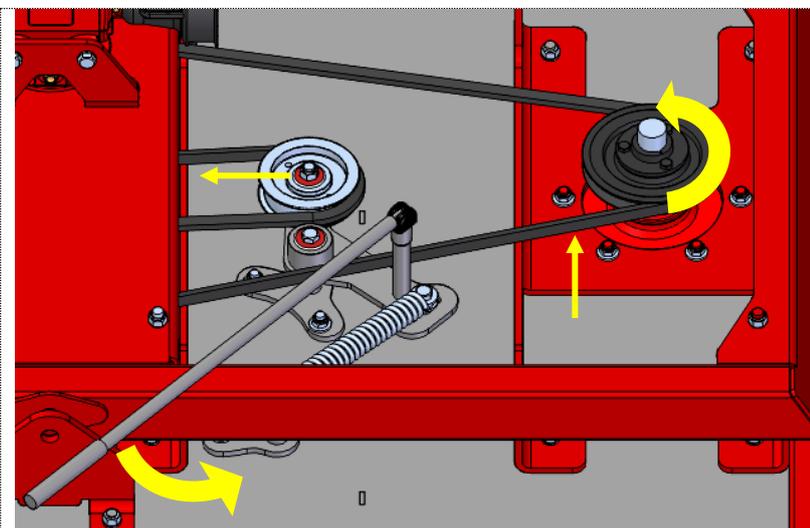


Continue to rotate the Pulley and pull upward on the Belt until the Belt comes free of the Pulley.

Tension can now be released from the Power Bar.

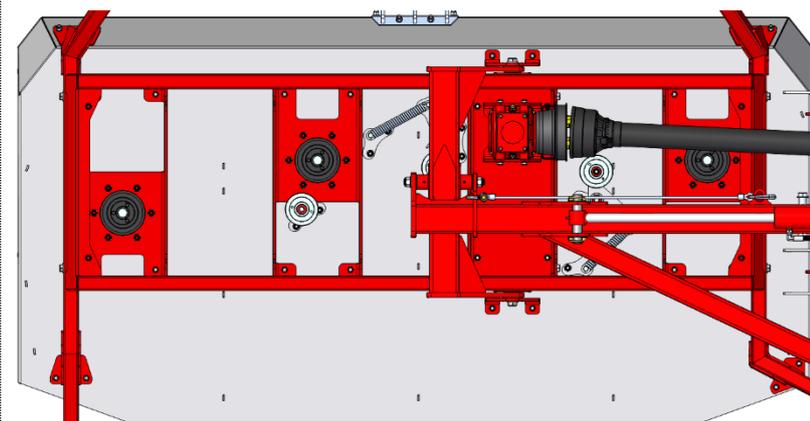


The second Belt (highlighted in **green**) can now be removed, following the same process as above.



To remove the Belt, use a Power Bar and ½” drive to tension the Tensioner Pulley Arm, and slacken the Belt as shown.

Remove it by rotating the pulley and pulling up on the belt.

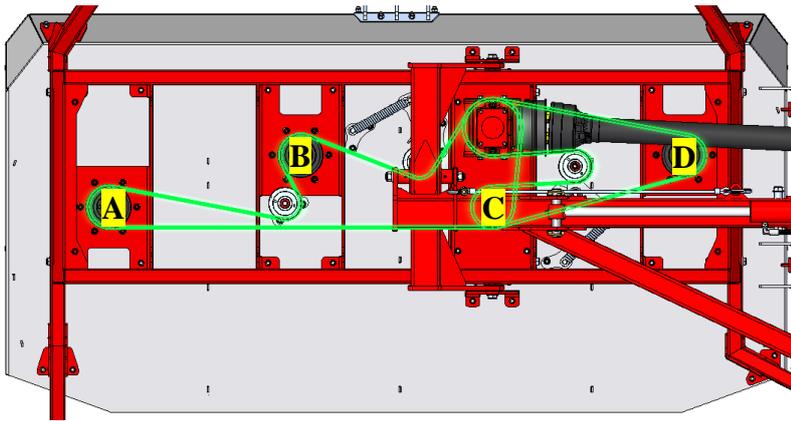


Continue to rotate the Pulley and push upward on the Belt until the Belt comes free of the Pulley.

Tension can now be released from the Power Bar.

Both Belts can now be removed and disposed of.

Belt installation instructions – Left Deck

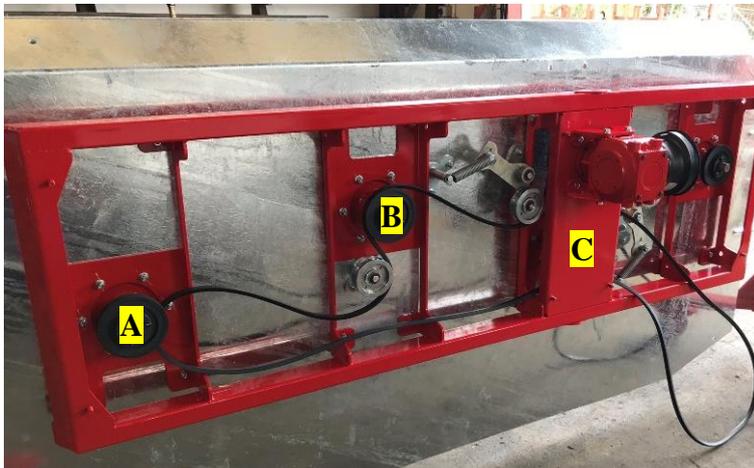


The Left-Hand Deck Belt layout is shown.



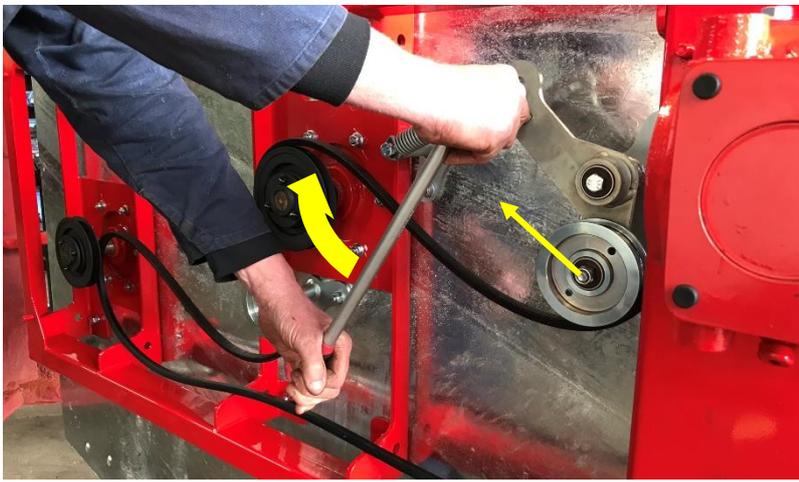
To install the new Belts, begin by fitting the short replacement Belt (**404-041-142**) into the bottom groove of the “**C**” Spindle Pulley.

This is the groove closest to the Deck body.



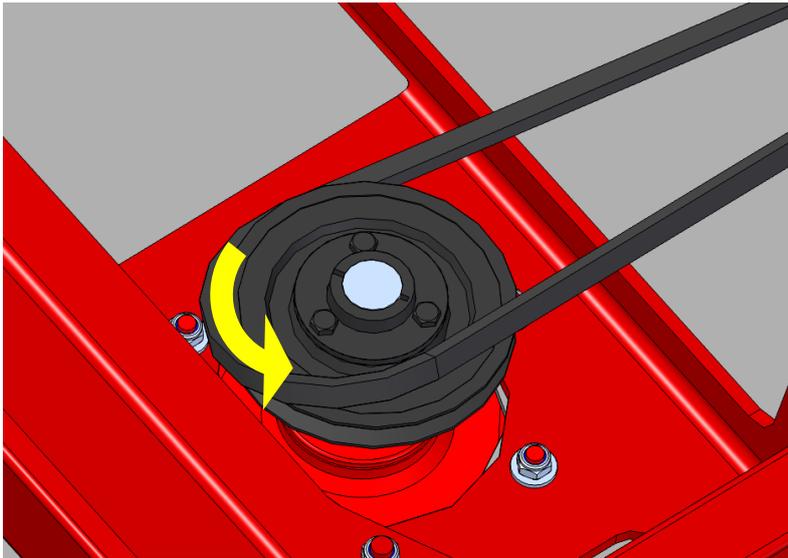
Fit the long replacement Belt (**404-041-562**) over the top groove of the Gearbox Pulley, the top groove of the “**C**” Spindle Pulley, the “**B**” Spindle Pulley and Idler Pulley, as shown.

Bring the end of the Belt near to the “**A**” Spindle Pulley.



To fit the Belt over the “**A**” Spindle Pulley, use a Power Bar and ½” drive to tension the Tensioner Pulley Arm, and extend the Tensioner Spring as shown.

A different Power Bar angle may be necessary.



With a second person holding tension on the Power Bar, align the Belt so that part of the Belt is slotted into the Pulley groove and part of the Belt is over the top lip of the Pulley, as shown.

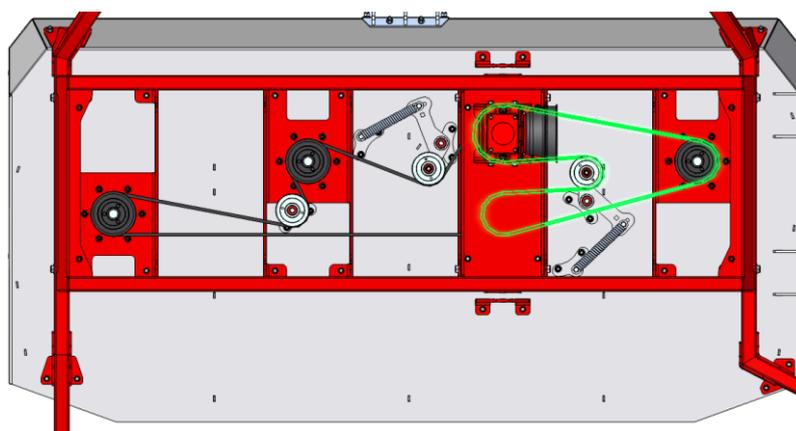
Rotate the Pulley so that the friction between the Belt and Pulley draws the Belt into place.



Be extremely careful not to trap fingers between the Pulley and Belt!



Once the Belt is in place, continue to rotate the Pulley or pull on the Belt as this will cause the Belt to seat correctly into the Pulleys.



The second Belt can now be fitted.



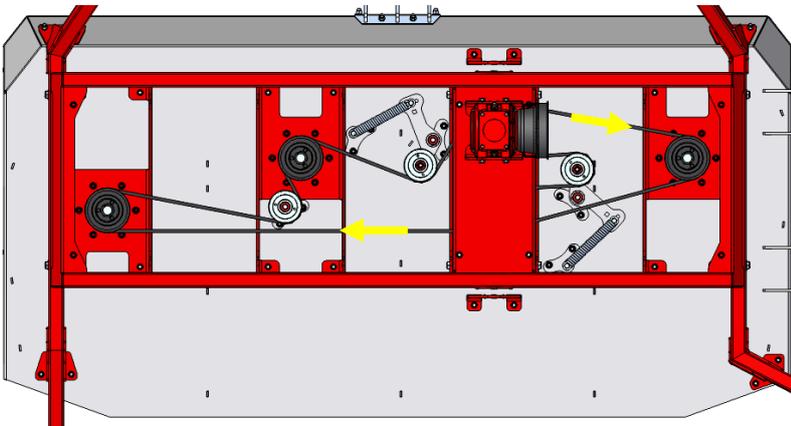
Fit the short replacement Belt over the bottom groove of the Gearbox Pulley, the bottom groove of the “C” Spindle Pulley, and Idler Pulley, as shown.

Bring the end of the Belt near to the “D” Spindle Pulley.



To fit the Belt over the “D” Spindle Pulley, use a Power Bar and ½” drive to tension the Tensioner Pulley Arm, and extend the Tensioner Spring as shown.

Fit the Belt over the “D” Spindle Pulley, as shown previously.

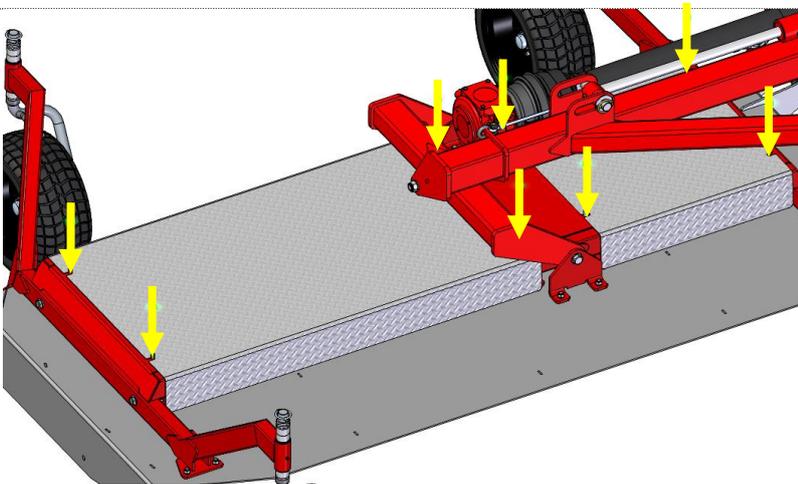


Once the Belt is fitted, continue to turn the Pulley or pull the Belt such that the Belt seats correctly into the Pulleys. Observe the driveline



Ensure that **ALL** Belts and Pulleys rotate.

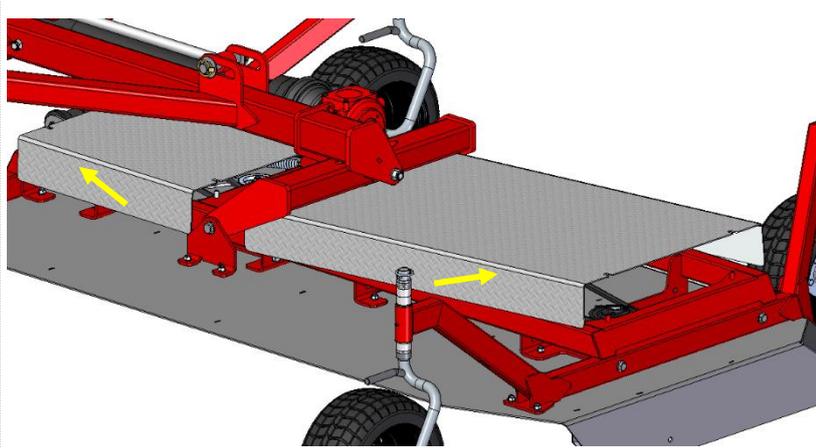
Ensure that the Belts do not foul on other components.



Remove any tools left behind inside the Transmission Chamber.

The Transmission Covers can now be replaced. Ensure the self locking nuts, shown in **yellow**, are tightened to secure the Cover in place.

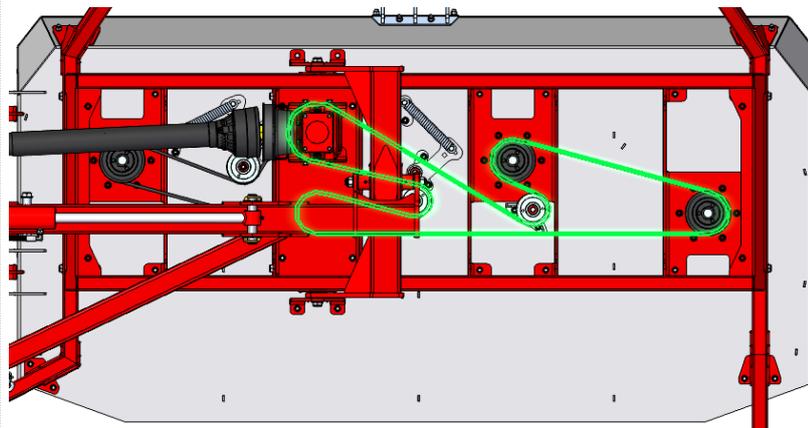
Belt removal instructions – Right Deck



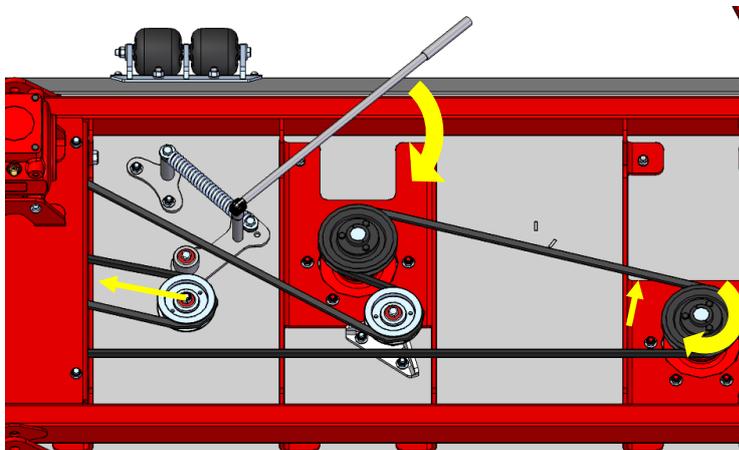
Remove the Transmission Covers using the same process as the Left-Hand Deck.

If any Belts have snapped, simply remove these and dispose of them.

Otherwise, use the following procedure to remove worn belts.

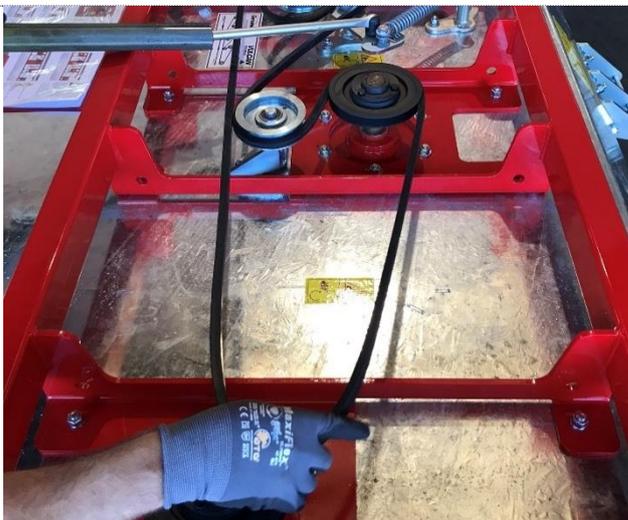


The first Belt to be removed is shown in **green**.



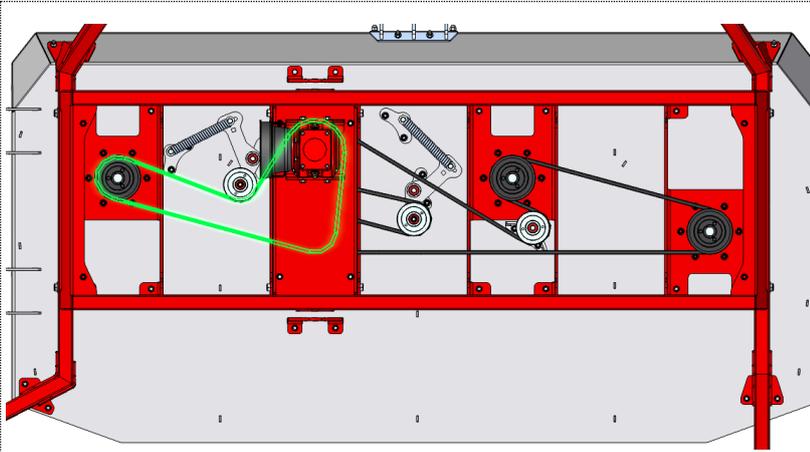
To remove the Belt, begin by having a second person apply tension to the Idler Arm and Spring with a Power Bar with ½" drive, as shown. This will slacken the Belt enough to remove it.

Remove it by rotating the pulley and pulling up on the belt.

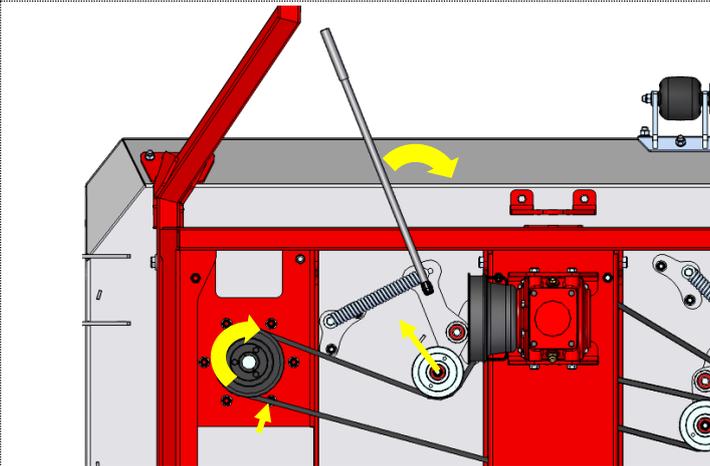


Continue to rotate the Pulley and push upward on the Belt until the Belt comes free of the Pulley.

Tension can now be released from the Power Bar.

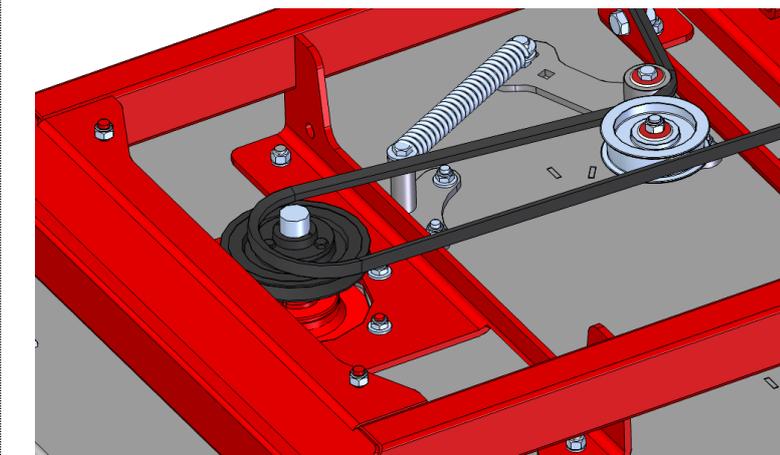


The next Belt to be removed is highlighted in **green**.



To remove the Belt, begin by having a second person apply tension to the Idler Arm and Spring with a Power Bar with ½" drive, as shown. This will slacken the Belt enough to remove it.

Remove the belt using the process outlined previously.

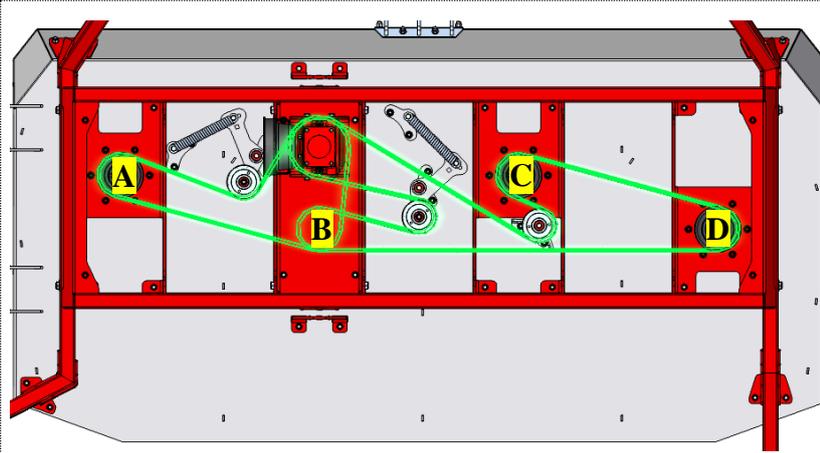


Continue to rotate the Pulley and push upward on the Belt until the Belt comes free of the Pulley.

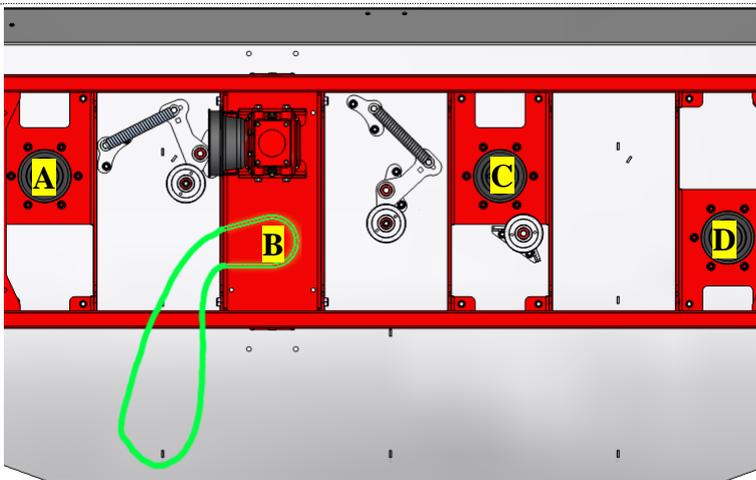
Tension can now be released from the Power Bar.

Both Belts can now be removed and disposed of.

Belt installation instructions – Right Deck



The Right-Hand Deck Belt layout is shown.



To install the new Belts, begin by fitting the short replacement Belt (404-040-902) into the bottom groove of the “**B**” Spindle Pulley.

This is the groove closest to the Deck body.



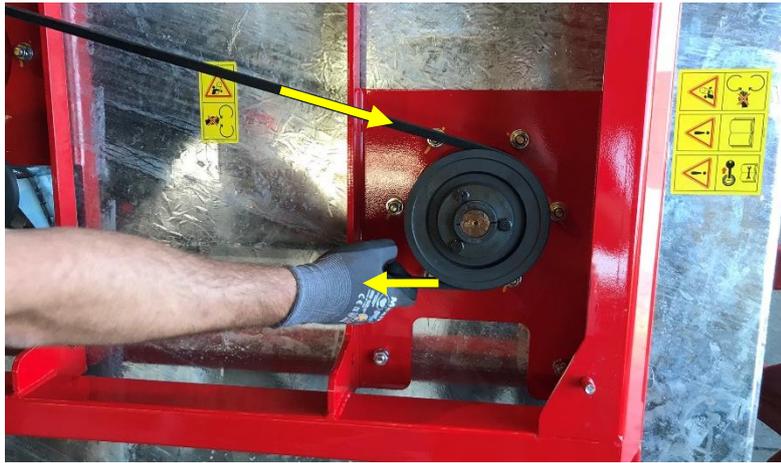
Fit the long replacement Belt (404-041-972) over the top groove of the Gearbox Pulley, the top groove of the “**B**” Spindle Pulley, the “**C**” Spindle Pulley and Idler Pulley, as shown.

Bring the end of the Belt near to the “**D**” Spindle Pulley as shown.

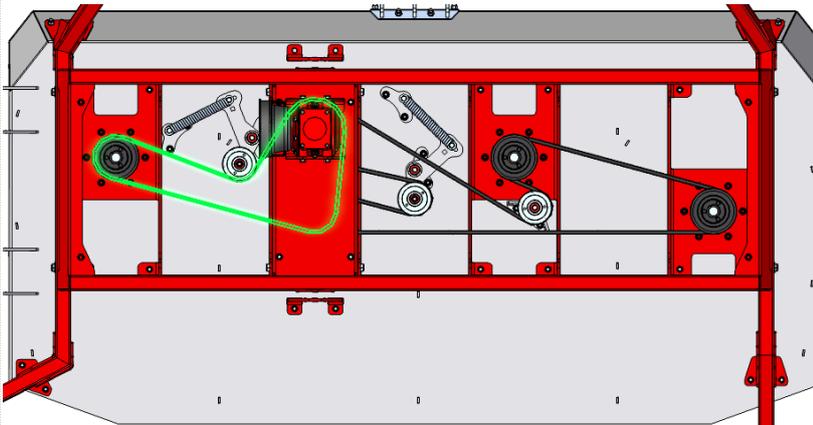


To fit the Belt over the “**D**” Spindle Pulley, use a Power Bar and ½” drive to tension the Tensioner Pulley Arm, and slacken the Belt as shown.

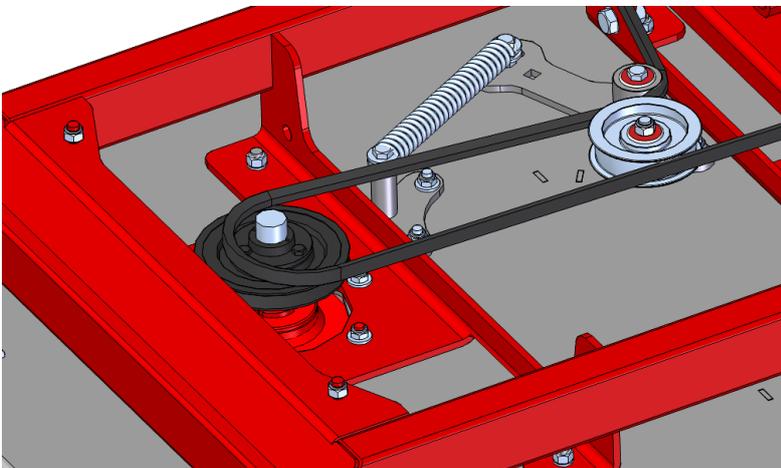
Fit the belt over the “**D**” Spindle Pulley using the process shown previously.



Once the Belt is in place, continue to rotate the Pulley or pull on the Belt as this will cause the Belt to seat correctly into the Pulleys.



The second Belt can now be fitted.



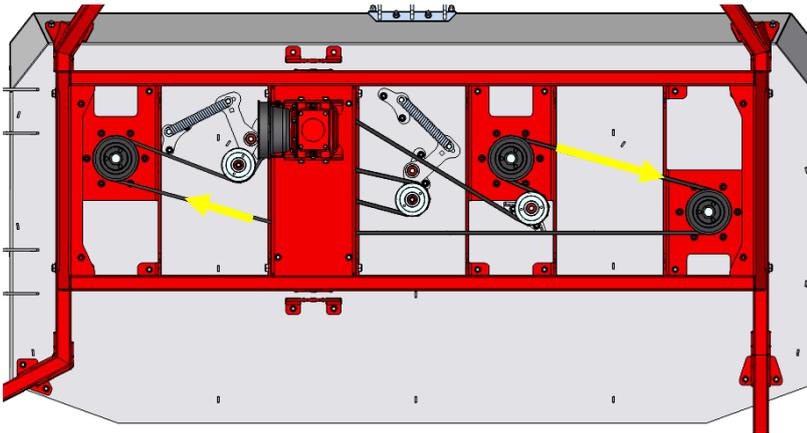
Fit the short replacement Belt over the bottom groove of the Gearbox Pulley, the bottom groove of the “**B**” Spindle Pulley, and Idler Pulley, as shown.

Bring the end of the Belt near to the “**A**” Spindle Pulley.



To fit the Belt over the “**A**” Spindle Pulley, use a Power Bar and ½” drive to tension the Tensioner Pulley Arm, and slacken the Belt as shown.

Fit the belt over the “**A**” Spindle Pulley using the process shown previously.

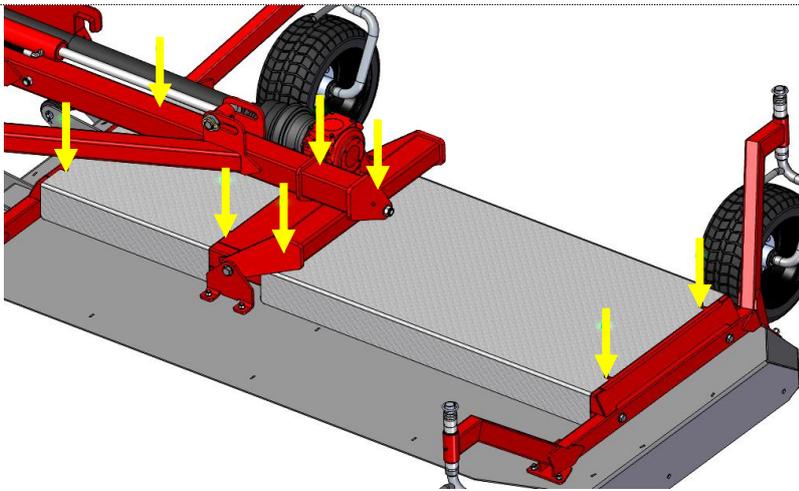


Once the Belt is fitted, continue to turn the Pulley or pull the Belt such that the Belt seats correctly into the Pulleys. Observe the Driveline.



Ensure that **ALL** Belts and Pulleys rotate.

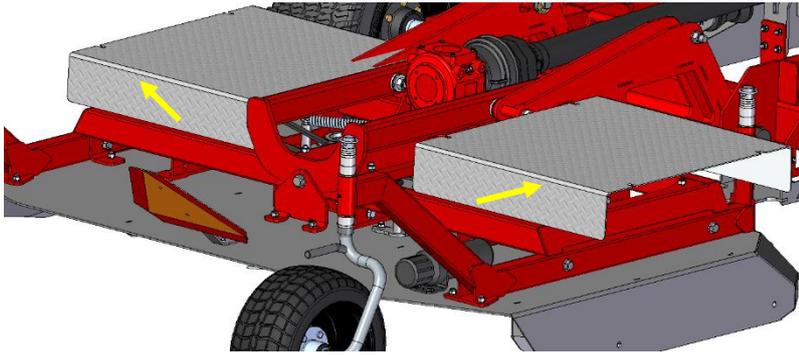
Ensure that the Belts do not foul on other components.



Remove any tools left behind inside the Transmission Chamber.

The Transmission Covers can now be replaced. Ensure the self locking nuts, shown in **yellow**, are tightened to secure the Cover in place.

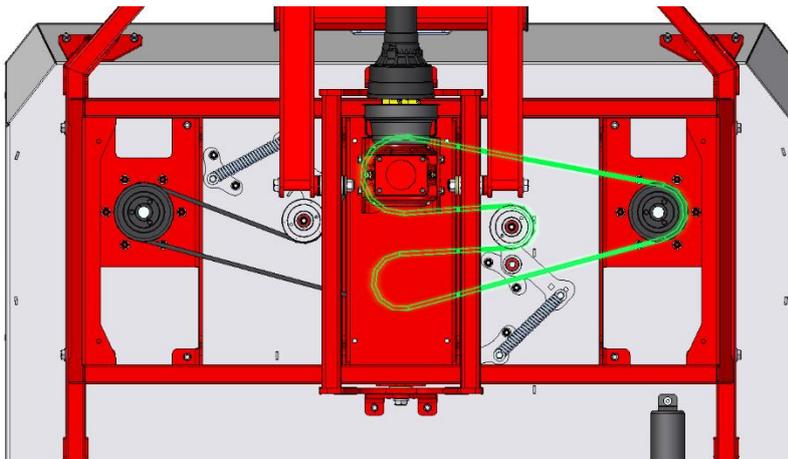
Belt removal instructions – Rear Deck



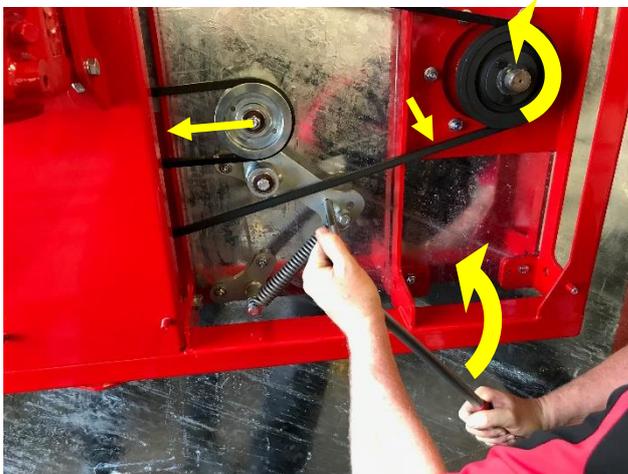
Remove the Transmission Covers using the same process as the Left and Rear Decks.

If any Belts have snapped, simply remove these and dispose of them.

Otherwise, use the following procedure to remove worn belts.



The first Belt to be removed is highlighted in **green**.



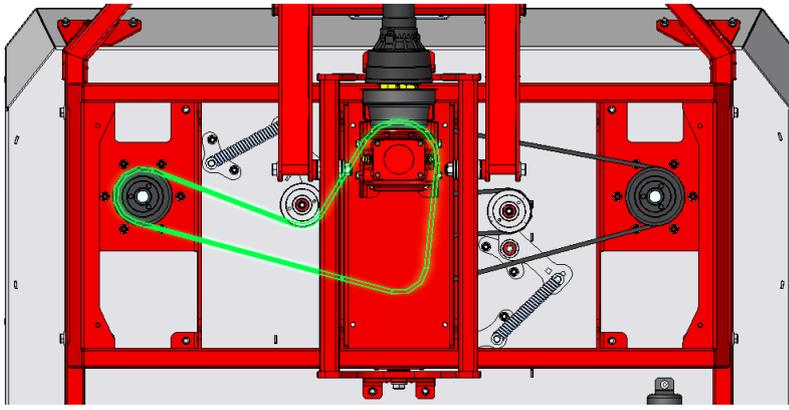
To remove the Belt, use a Power Bar and ½” drive to tension the Tensioner Pulley Arm, and slacken the Belt as shown.

Remove it by rotating the pulley and pulling up on the belt.

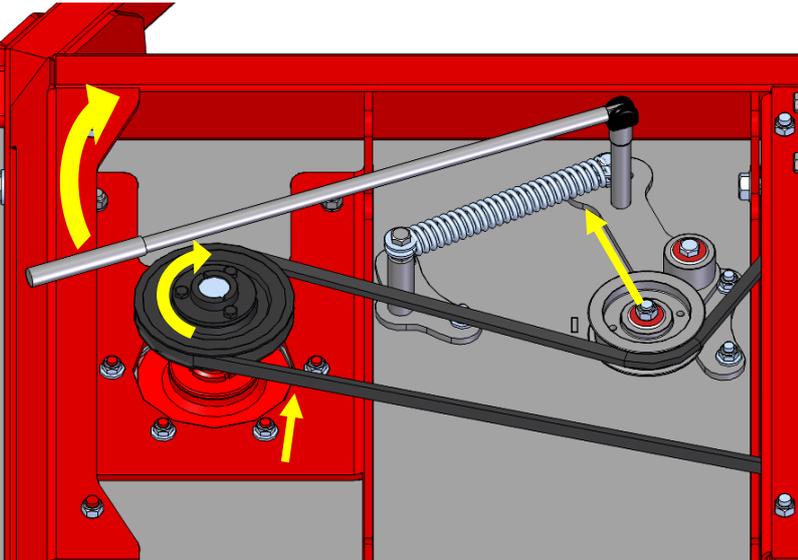


Continue to rotate the Pulley and push upward on the Belt until the Belt comes free of the Pulley.

Tension can now be released from the Power Bar and the belt partially removed.



The next Belt to be removed is highlighted in **green**.



To remove the Belt, use a Power Bar and ½” drive to tension the Tensioner Pulley Arm, and slacken the Belt as shown.

Remove it by rotating the pulley and pulling up on the belt.

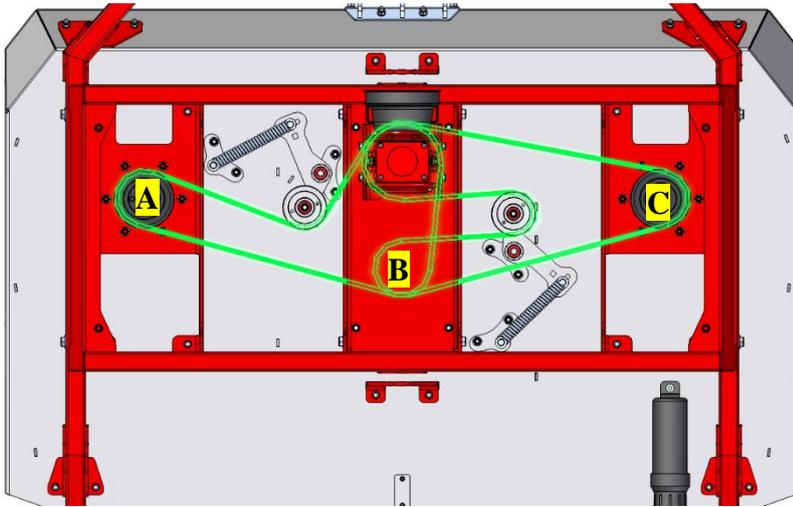


Continue to rotate the Pulley and push upward on the Belt until the Belt comes free of the Pulley.

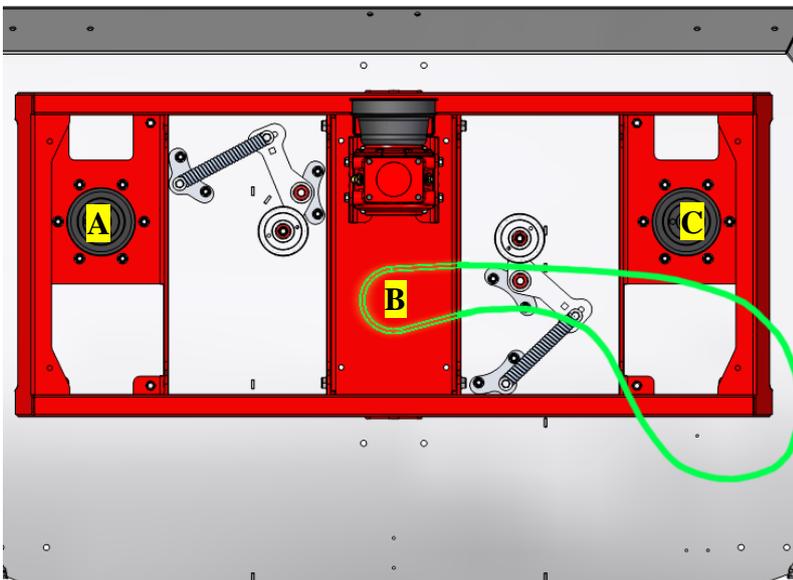
Tension can now be released from the Power Bar.

Both Belts can now be removed and disposed of.

Belt installation instructions – Rear Deck



The Rear Deck Belt layout is shown.



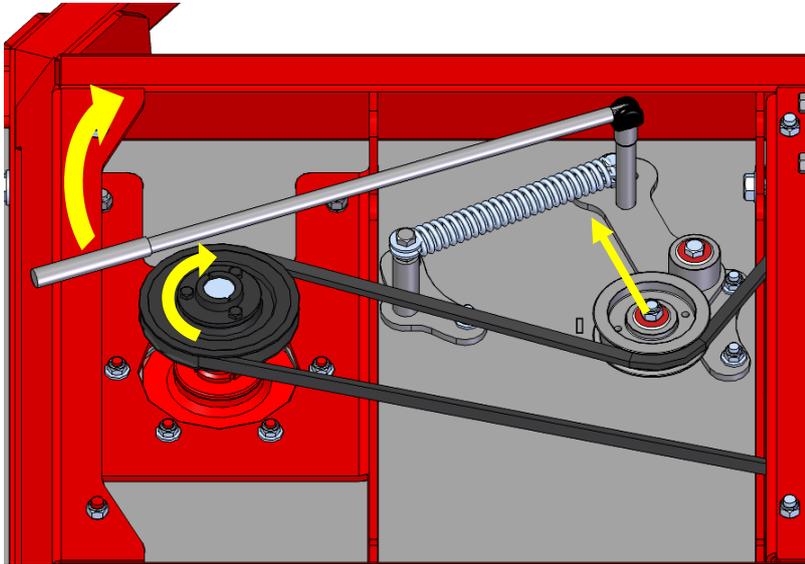
To install the new Belts, begin by loosely fit the replacement long Belt (404-041-142) to the “B” Spindle Pulley as shown in **green**.

This Belt goes in the bottom groove.



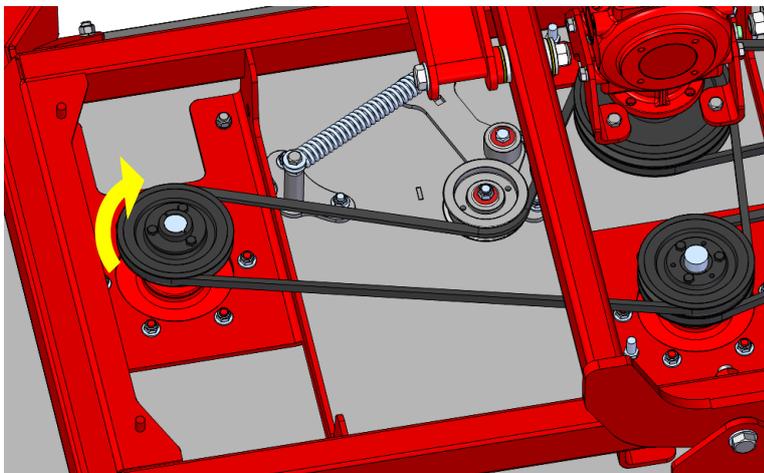
Fit the short Belt (404-040-902) around the **TOP** groove of the “B” Spindle Pulley, and the **TOP** Groove of the Gearbox Pulley.

Bring the end of the Belt near to the “A” Spindle Pulley as shown.

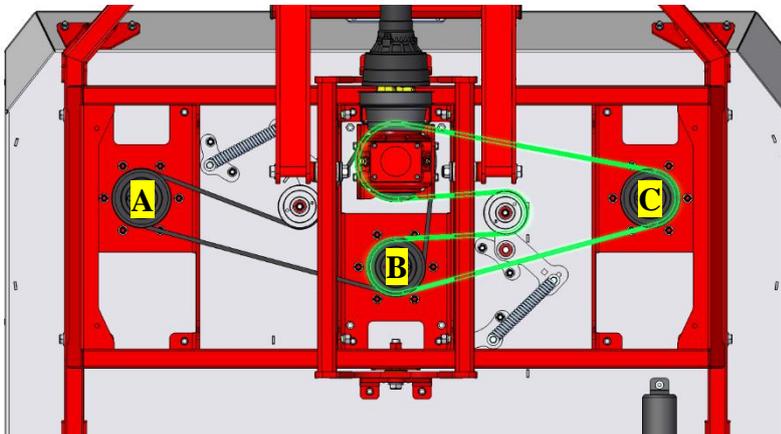


To fit the Belt over the “**A**” Spindle Pulley, use a Power Bar and ½” drive to tension the Tensioner Pulley Arm, and slacken the Belt as shown.

Fit the belt over the “**A**” Spindle Pulley using the process shown previously.



Once the Belt is in place, continue to rotate the Pulley or pull on the Belt as this will cause the Belt to seat correctly into the Pulleys.



The second Belt can now be fitted.



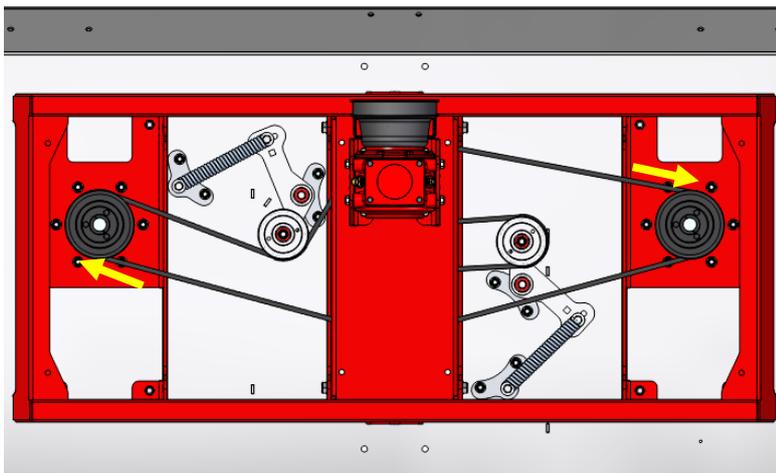
Fit the long replacement Belt over the bottom groove of the Gearbox Pulley, the bottom groove of the “**B**” Spindle Pulley, and Idler Pulley, as shown.

Bring the end of the Belt near to the “**C**” Spindle Pulley.



To fit the Belt over the “**C**” Spindle Pulley, use a Power Bar and ½” drive to tension the Tensioner Pulley Arm, and slacken the Belt as shown.

Fit the belt over the “**C**” Spindle Pulley using the process shown previously.

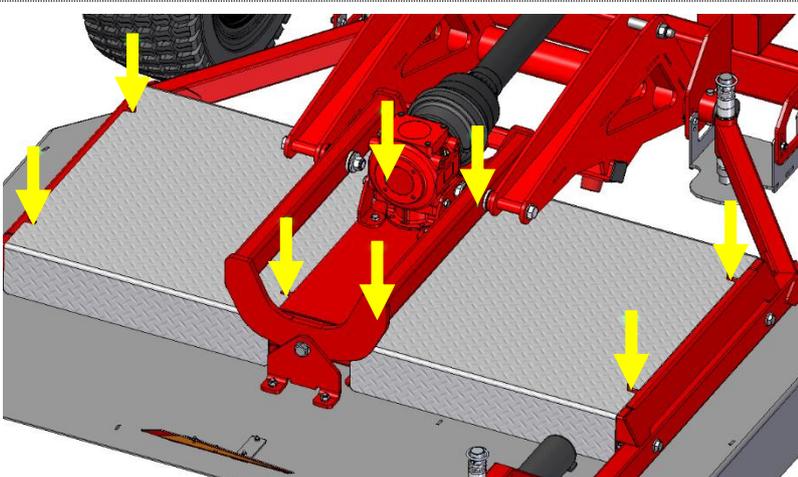


Once the Belt is fitted, continue to turn the Pulley or pull the Belt such that the Belt seats correctly into the Pulleys. Observe the Driveline.



Ensure that **ALL** Belts and Pulleys rotate.

Ensure that the Belts do not foul on other components.



Remove any tools left behind inside the Transmission Chamber.

The Transmission Covers can now be replaced. Ensure the self locking nuts, shown in **yellow**, are tightened to secure the Cover in place.