

# SPARE PARTS INSTRUCTIONS #74

**Date Created:** 13/01/2020 **Product:** Pegasus

Title: MLS service guide

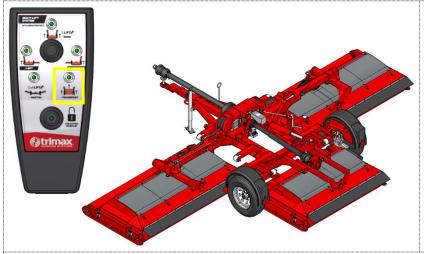


**SAFETY!** Before attempting to make any adjustments or carry out maintenance on the mower, review the hazard identification table (section 3a of your Operator's Manual) and take all necessary precautions.

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## PRIOR TO WORKING ON THE MOWER



Park the Pegasus on a flat, level surface.

Ensure the surrounding area is clear of obstructions and people.

With the tractor running, and the lift system (MLS, ILS or QuikLIFT) in **Transport** mode, unlock the Transport Locks and gently lower the Mowing Decks down onto the ground.



For more detail on this process, please refer to your Pegasus Operator's Manual.



Prior to performing any work detailed in this procedure, isolate the power supply to the Pegasus.

Firstly, switch the Tractor Ignition to the "**OFF**" position, then disconnect the Main Power Cable from between the Tractor and the Pegasus.

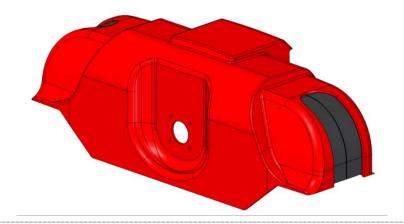
**DO NOT** work on live electrical equipment, as this is dangerous and may cause damage to electrical components and/or injury!

## **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 as a result of failure to follow these instructions.

# DRIVE PROTECT MODULE COVER REPLACEMENT

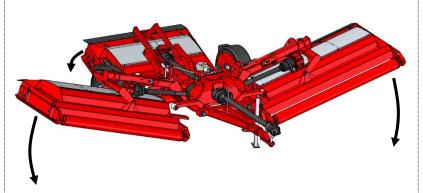


This section covers the removal and replacement of the Drive Protect command module cover – **410-000-304**.



## Note:

This section will be referred to in other sections of this manual where the removal of this part is required.

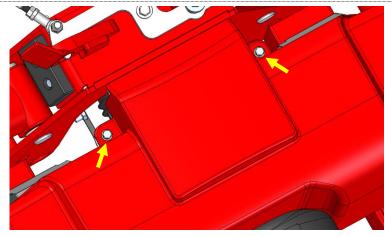


Begin by lowering the mower decks completely. The cover cannot be removed with the decks raised.



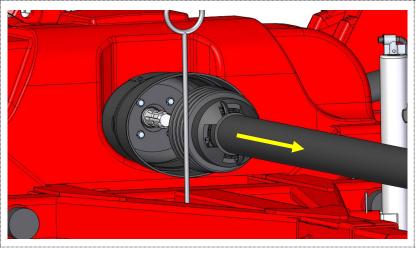
## **IMPORTANT:**

Do not work on the mower with the decks partially raised. This is very dangerous!



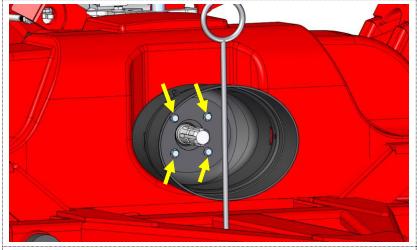
To remove the cover, begin by undoing the two M8 bolts securing the top section of the cover.

Put the fasteners to one side. These will be reused.

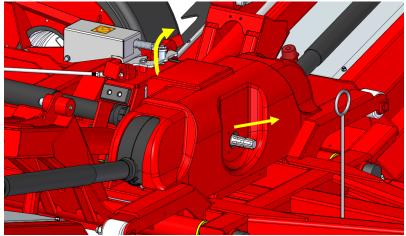




If the front PTO shaft is connected, remove it and set it aside.

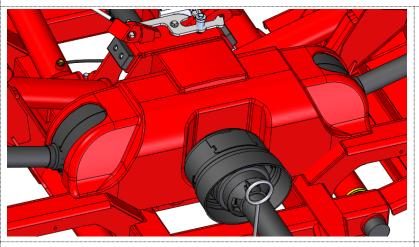


Undo the four M8 bolts securing the PTO cone, remove the PTO cone and bolts and set them aside.



Remove the cover by lifting the rear and sliding the part out and up away from the mower.

# **Re-fit the cover**

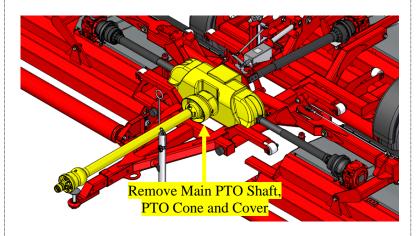


To refit the cover or fit the replacement cover, simply reverse the above procedure.

This process is now complete



## HAND CONTROLLER REPLACEMENT





Remove the Main PTO Shaft, Wide Angle PTO Cone and the Drive Protect Module Cover as highlighted **YELLOW** in the image opposite.



#### Note:

For more detail on this process, please refer to "Drive Protect module cover replacement" section of this Service Guide.



Disconnect the 12-pin Hand Controller plug underneath the 4-way gearbox on the left-hand side, as viewed from the front.



Cut the cable tie securing the Hand Controller cable, Power Cable, and Hydraulic line to the mower.

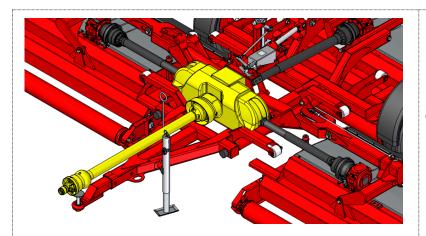
Be careful not to damage the electrical or hydraulic lines.



Remove the spiral wrap from the cables between the mower and the tractor, and remove the faulty Hand Controller.

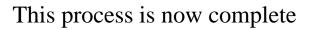
Replace the Hand Controller and re-fit the spiral wrap as it was previously.





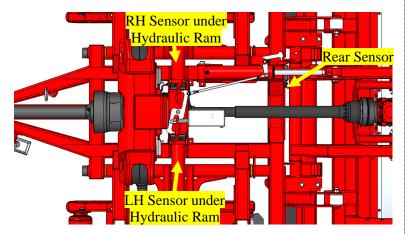


Replace the previously removed cable tie, and re-fit the Drive Protect module cover, PTO Cone, and wide angle PTO shaft.





# **PROXIMITY SENSOR REPLACEMENT**



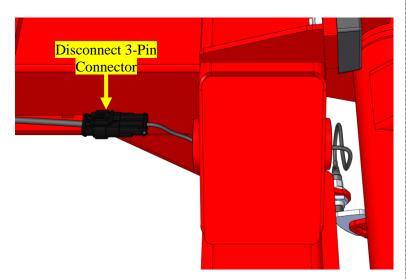
There are three Proximity Sensors (**421-000-118**) fitted to the Pegasus Chassis, one is near each Outrigger Arm.

Their locations are shown in the birdseye view image shown.



### Note:

Only the Rear Proximity Sensor is shown throughout this section. The replacement process is **identical** for all three Sensors.





Once the faulty Proxitmity Sensor is identified, trace the Cable back towards the Command Module above the Chassis Gearbox until the

3-Pin Connector is found.

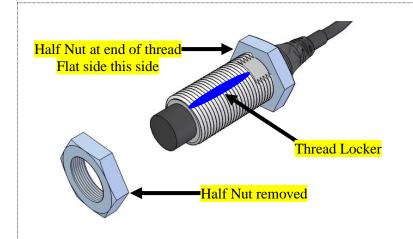
Disconnect this 3-Pin Connector.

Carefully cut any Cable Ties used to retain the Proximity Sensor Cable to the Chassis.



Remove the Half Nut shown from **BLACK** end of the faulty Proximity Sensor.

Remove the faulty Proximity Sensor from the Chassis.



Sensor and Half Nut in place

Flat Side this side

Remove the Half Nut at the **BLACK** end of the replacement Proximity Sensor.

Wind the other Half Nut to the Cable end of the thread.

# Apply **MEDIUM STRENGTH THREAD LOCKING COMPOUND**along thread on the Proximity Sensor.

The image opposite shows a Sensor prepared for fitment.



## **IMPORTANT:**

Ensure the **FLAT** side of the Nut is facing the **BLACK** end of the Sensor.

Pass the **BLACK** end of the Sensor through the Proximity Sensor Mount on the Chassis as shown.

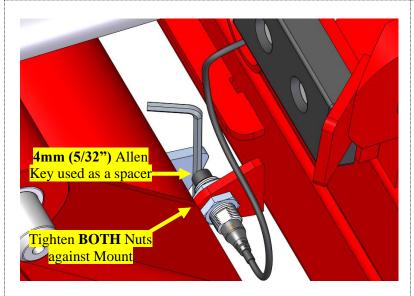
Refit the other Nut to the Proximity Sensor.

DO NOT tighten at this stage!



## **IMPORTANT:**

Ensure the **FLAT** side of the Nut is facing **AWAY** from the **BLACK** end of the Sensor.



Set the **BLACK** end of Proximity Sensor **4mm (5/32")** away from the silver Proximity Cam that is mounted to the Outrigger Arm.

A 4mm (5/32") Drill Bit or Allen Key is ideal for setting this spacing.

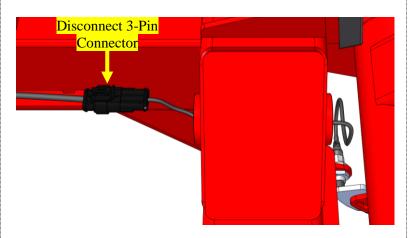
Once set, tighten **BOTH** Nuts against the Mount.

**DO NOT** overtighten or the Sensor may be damaged!



## **IMPORTANT:**

It is **CRITICAL** that the Sensor is set to the correct distance from the Cam! The system can malfunction if set incorrectly!





Reconnect the 3-Pin Connector.

Resecure the Cable using Cable Ties in the original locations.

Trim the "tails" off of the Cable Ties.





Reconnect the Main Power Cable to the Tractor.

Ensure that the Tractor PTO output is **DISENGAGED**.

Start the Tractor Engine.



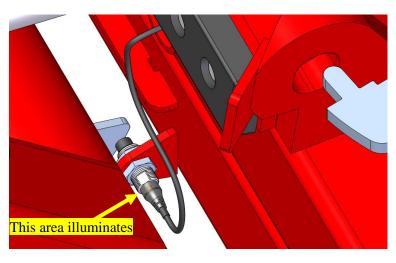


Observe the Hand Controller.

When first powering on, all lights will flash.

Press the "Mode" button once to enter "Transport mode"

The transport mode indicator light will stay on and all others will turn off.





With the Mowing Decks in the **LOWERED** position, check all three Proximity Sensors.

One shown.



## **IMPORTANT:**

The white part of each Sensor should be illuminated **ORANGE**. This indicates that the Sensors are being triggered by the Outrigger Arms as the Mowing Decks are in the lowered position.



## **For ILS Side Decks ONLY:**



Press the "Mode" button on the Hand Controller to enter a "Deck Lift" mode for the Deck corresponding to the replaced Sensor.

The appropriate light will illuminate, all other lights will be off.

Operate the Tractor hydraulics and raise the selected Mowing Deck.

## **For ILS Side Decks ONLY:**



This Mowing Deck should stop with the **OUTERMOST** Blade at no more than **400mm** (**15** 3/**4**") above the ground, pause for a time, then continue to raise to the Transport Position.



## **IMPORTANT:**

If this does not occur, the Sensor may not be set up correctly. Ensure that the Sensor is set as described earlier in this procedure.

## For MLS and QuikLIFT ONLY:



Press the "Mode" button on the Hand Controller to enter QuikLift mode.

The QuikLift light will illuminate, all other lights will be off.

Operate the Tractor hydraulics and raise the Mowing Decks.

## For MLS and QuikLIFT ONLY:



This Mowing Decks should stop with the **OUTERMOST** Blades at no more than **400mm** (15 3/4") above the ground.



## **IMPORTANT:**

If this does not occur, the Sensor may not be set up correctly. Ensure that the Sensor is set as described earlier in this procedure.



Once the above tests have occurred, press the "Mode" Button until the system is in "Transport Mode"

Raise the Mowing Decks to their raised position and engage the Transport Locks.

Check all three Proximity Sensors.



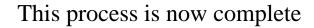
## **IMPORTANT:**

The white part of each Sensor should **NOT** be illuminated. This indicates that the Sensors are **NOT** being triggered by the Outrigger Arms as the Mowing Decks are in the raised position.



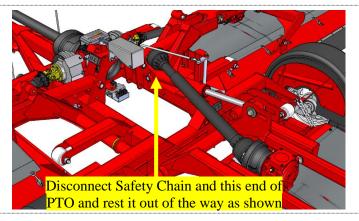
# IMPORTANT:

If there are still issues with the Proximity Sensors, please refer to your Operator's Manual for additional troubleshooting information or contact your Authorized Service Agent/Trimax Mowing Systems Representative.





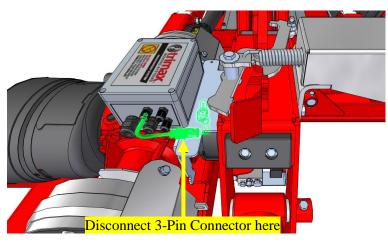
## PTO SENSOR REPLACEMENT



Disconnect the Rear PTO Safety Chain from the PTO Cone fitted to the **REAR** of the Chassis Gearbox.

Depress the Push Pin and slide the PTO Shaft off the Chassis Gearbox.

Rest this end of the PTO Shaft on the Rear Hydraulic Cylinder as shown.





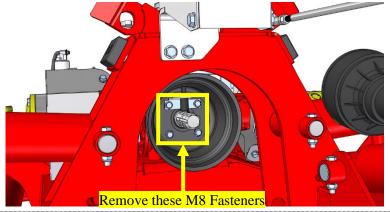
Disconnect the PTO Speed Sensor from the Command Module by unplugging the 3-Pin Connector. This is located UNDERNEATH the Command Module Mounting Bracket.

The Cable and Connector are highlighted **GREEN** in the image opposite.



## Note:

All other Cables are hidden throughout this procedure for clarity.

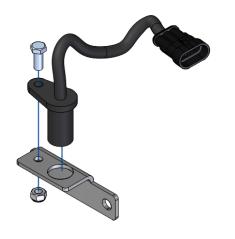


Remove the four M8 x 16 Bolts and Flat Washers used to secure the PTO Cone to the **REAR** of the Chassis Gearbox.

Remove the PTO Cone and faulty PTO Speed Sensor Assembly as a unit.



Pass the Sensor Cable through the slot in the PTO Cone to remove the PTO Speed Sensor Assembly as shown opposite.



Remove the M6 x 16 Bolt and M6 Nyloc Nut shown to separate the PTO Speed Sensor from the Mounting Bracket.

Retain the Molunting Bracket and Fasteners.



Collect the replacement PTO Speed Sensor (418-000-117).

Attach to the Mounting Bracket using the M6 x 16 Bolt and M6 Nyloc Nut.

Tighten to secure.



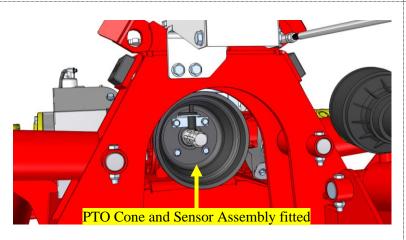
Place the PTO Speed Sensor Assembly inside of the PTO Cone.

Feed the Cable through the slot in the PTO Cone so that the 2-Pin Connector is fitted on the **OUTSIDE** of the PTO Cone.



#### **Note:**

The Braided Sleeve on the Cable should hold the PTO Speed Sensor Assembly in place during fitment.



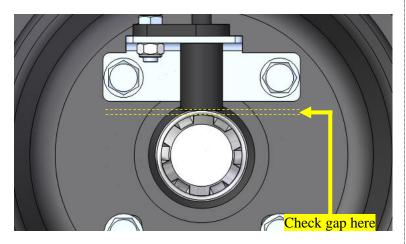
Offer PTO Cone and PTO Speed Sensor Assembly up to the Chassis Gearbox.

Secure using M8 x 16 Bolts and M8 Flat Washers.



## **IMPORTANT:**

Ensure that the Safety Chain Lugs on the PTO Cone are **HORIZONTAL** and that the PTO Speed Sensor is **ABOVE** the Gearbox Output Shaft as shown.



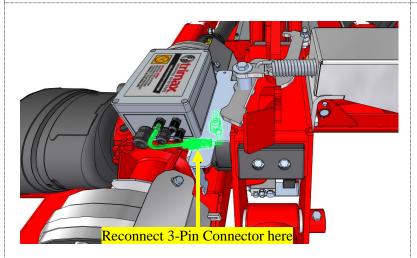


## **IMPORTANT:**

The gap between the PTO Speed Sensor and splined shaft should be **2mm-3.5mm** (3/32"-1/8") for the sensor to function correctly.

If this gap is too large or small, ensure all parts are fitted as detailed above.

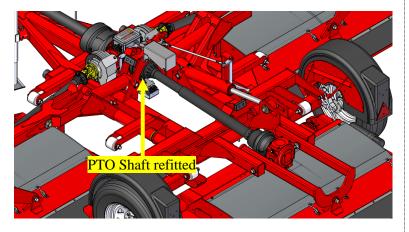
If this specification is still not achievable, contact your Authorized Service Agent or Trimax Mowing Systems Representative.





Reconnect the PTO Speed Sensor to the Command Module by plugging in the 3-Pin Connector.

The Cable and Connector are highlighted **GREEN** in the image opposite.



Refit the Rear PTO Shaft to the Chassis Gearbox.

Depress the Push Pin, align the internal splines in the PTO Shaft with the external spines on the Gearbox Shaft.

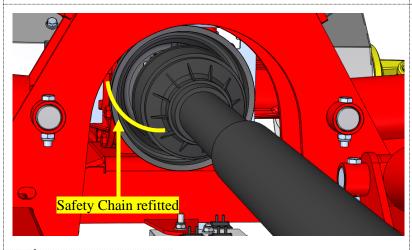
Push the PTO Shaft onto the Gearbox Shaft

Release the Push Pin.



## **IMPORTANT:**

Use caution during this step to avoid damaging the replacement Sensor.



Reconnect the Safety Chain to is original location.



## **IMPORTANT:**

Once fitted, try to pull the PTO Shaft **AWAY** from the Gearbox to check that the PTO Shaft is locked in place correctly.





Reconnect the Main Power Cable to the Tractor.

Ensure that the Tractor PTO output is **DISENGAGED**.

Switch the Tractor ignition to the "ON" position and start the engine.





## **IMPORTANT:**

Check the Operation of the replacement PTO Speed Sensor.

With the Mowing Decks in the **LOWERED** position, press the "MODE" button once to enter Transport Mode.

Engage the Tractor PTO Output. Observe the transport light on the Hand Controller.

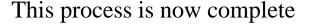
If the transport light on the Hand Controller blinks while the PTO is running, the Sensor is functioning correctly.

All variants of the Hand Controller are shown opposite with the transport light highlighted in **YELLOW**.



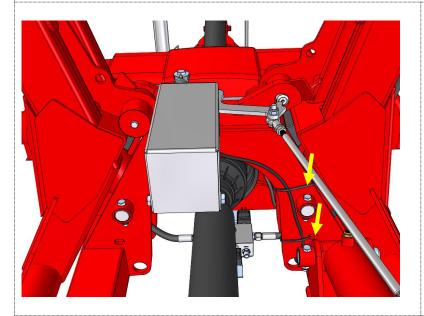
#### **Note:**

If the transport light does not blink during this process, please refer to your Operator's Manual for additional troubleshooting information or contact your Authorized Service Agent/Trimax Mowing Systems Representative.



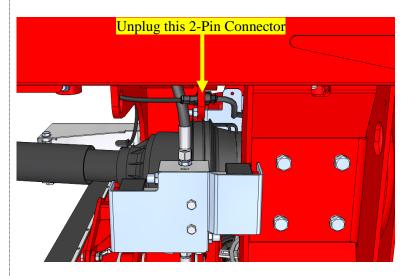


# **UNLOCK ACTUATOR REPLACEMENT**



Carefully cut the two Cable Ties shown at the **REAR** of the Lift Frame.

Trace this Cable from the Unlock Actuator to the find the 2-Pin Connector that joins the Unlock Actuator to the Command Module.





Disconnect the Unlock Actuator from the Command Module by unplugging the 2-Pin Connector shown behind the Chassis Gearbox.

Pull the Cable back through the holes in the Lift Frame.



## Note:

This view is from **UNDERNEATH** the Chassis. All other Cables are hidden throughout this procedure for clarity.

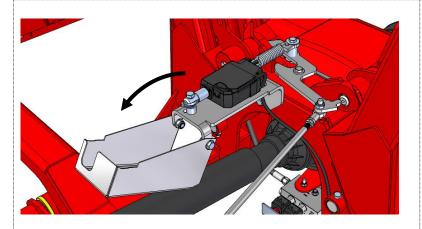
Lift the Unlock Actuator Cover to gain access to the Unlock Actuator.

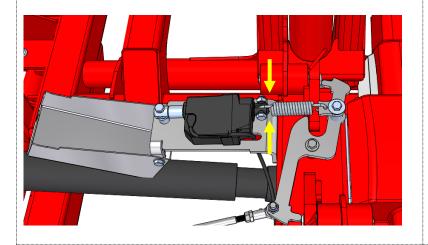


## **IMPORTANT:**

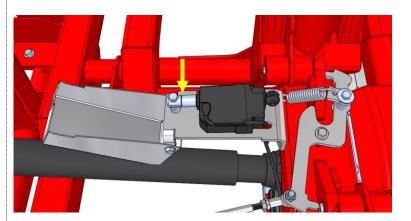
Take note of which hole position the Unlock Actuator is mounted to in the Mounting Bracket.

The new Unlock Actuator will need to be mounted to the same position.





Remove the M10 x 40 Bolt and M10 Nyloc Nut used to connect the Unlock Actuator to the Unlock Spring.



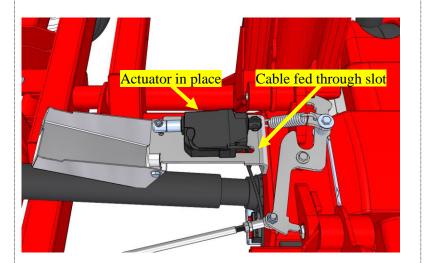
Remove the M10 x 60 Bolt and M10 Nyloc Nut used to secure the Unlock Actuator to the Mounting Bracket.

Remove the faulty Unlock Actuator.



## **IMPORTANT:**

Be careful not to lose the two Bushes (402-000-106 and 107) used to mount the Actuator as these will be reused.



Collect the replacement Unlock Actuator.

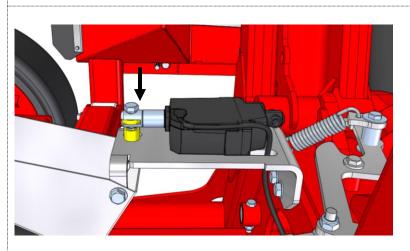
Position on the Mounting Bracket in the orientation shown.

Feed the Cable through the slot in the Mounting Bracket.



#### Note:

It does not matter if the Actuator is extended or retracted at this stage.



Secure the Unlock Actuator to the Mounting Bracket using an M10 x 60 Bolt and M10 Nyloc Nut.

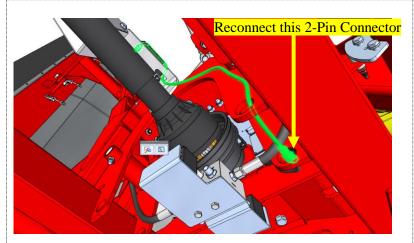
Ensure that the two Bushes removed earlier are fitted as shown in **YELLOW**.

Tighten to secure.



## **IMPORTANT:**

Use the same mounting position as the original Unlock Actuator.





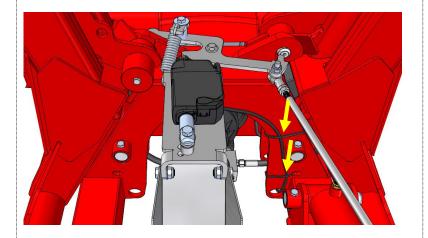
Run the Cable down through the Lift Frame as shown in GREEN.

Reconnect the 2-Pin Connector.



## Note:

This view is from **UNDERNEATH** the Chassis. All other Cables are hidden throughout this procedure for clarity.



Secure the Cable to the Lift Frame using two Cable Ties as shown.

Trim the "Tails" off the Cable Ties.



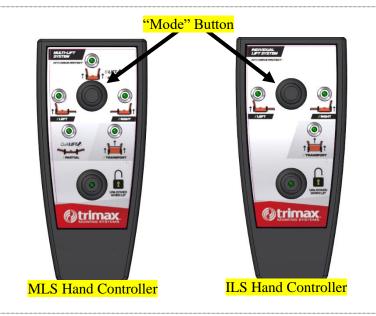


Reconnect the Main Power Cable to the Tractor.

Switch the Tractor ignition to the "ON" position.

**DO NOT** start the engine at this point.

Ensure that the Tractor PTO output is **DISENGAGED**.





## **IMPORTANT:**

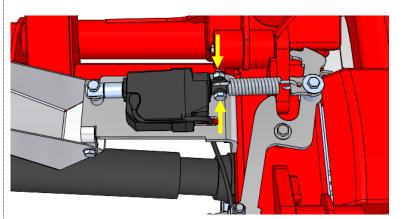
When first powering on the system, observe the Hand Controller.

All mode lights will flash.

Press the "Mode" button once to enter transport mode.

The transport light will stay on and all others will turn off.

The Unlock Actuator will extend, then the transport light will turn off.



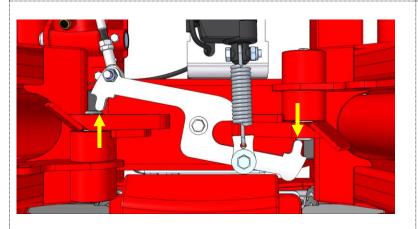
Once extended, attach the Unlock Actuator to the Unlock Spring using an M10 x 40 Bolt and M10 Nyloc Nut as shown.

Tighten to secure.



## Note:

**DO NOT** overtighten this fastener as this can damage the Unlock Actuator.



With the Actuator extended, **ALL** three Transport Lock Pins should be just touching their corresponding Lock Release Pins, two of these are shown opposite.



#### Note:

If the Unlock Spring is under excessive tension, move the bolt forwards one-hole position.

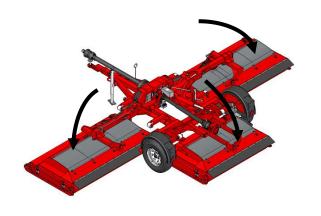
If the Unlock Spring is too slack, move it back one-hole position.



Disconnect the Safety Rope from between the LH and RH Outrigger Arms.

Store this safely by connecting the hook end of the Safety Rope to the Lug near the Transport Lock on the Outrigger Arm.

Start the Tractor, ensure that the Tractor PTO output is **DISENGAGED**.



Reconnect Safety Cable

Use the Tractor hydraulics to fully raise **ALL** Mowing Decks.

Press and hold the Unlock Button for at least one second to unlock the Transport Locks.

The light inside the button should illuminate.

Lower **ALL** Mowing Decks fully.



## **IMPORTANT:**

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

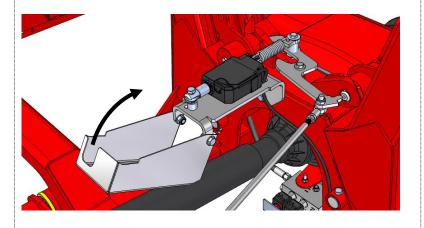
Use the Tractor hydraulics to raise **ALL** Mowing Decks to their **MAXIMUM**.



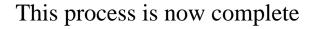
## **IMPORTANT:**

Check that all three Transport Lock Pins are engaged correctly in their respective sockets.

Reconnect the Safety Rope between the Outrigger Arms.

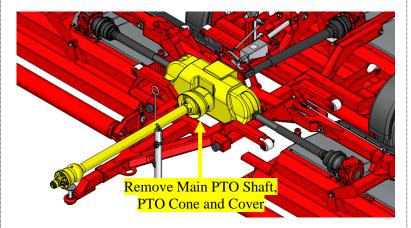


Close the Unlock Actuator Cover.





## **CLUTCH REPLACEMENT**



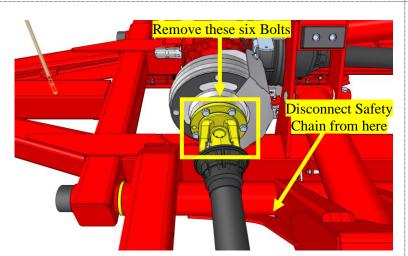


Remove the Main PTO Shaft, Wide Angle PTO Cone and the Drive Protect Module Cover as highlighted **YELLOW** in the image opposite.



## Note:

For more detail on this process, please refer to "Drive Protect module cover replacement" section of this Service Guide.



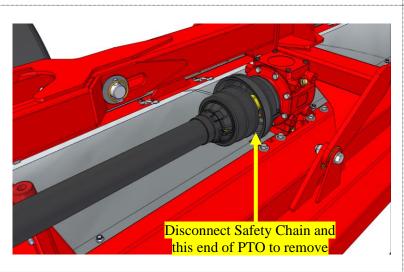
On the side of the Pegasus that has a faulty Clutch, disconnect the Inner PTO Saftey Chain from the Outrigger Arm.

Remove the six M10 x 30 Bolts and M10 Spring Washers from the PTO Mounting Flange. Rest this end of the PTO Shaft somehere where it will not fall.



#### Note:

This process can apply to either the LH or RH Clutch. The LH Clutch is shown throughout this procedure.





At the Mowing Deck end of the PTO Shaft, disconnect the Outer PTO Safety Chain.

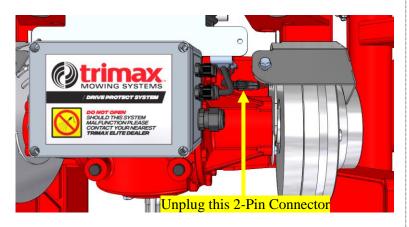
Depress the Push Pin and slide the PTO Shaft off the Mowing Deck Gearbox.

Remove the PTO Shaft from the Pegasus.



#### **Note**

Take note of the Safety Chain position, this will need to be reinstalled in the same location during reassembly.



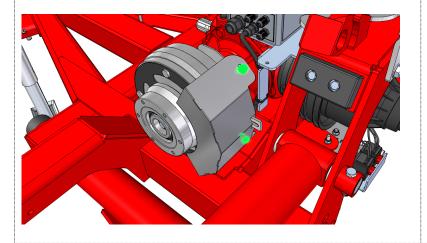


Disconnect the Clutch from the Command Module by unplugging the 2-Pin Connector shown behind the Chassis Gearbox.



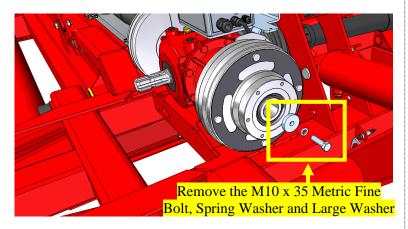
#### Note:

All other Cables are hidden throughout this procedure for clarity.



Remove the two M8 x 16 Bolts, M8 Spring Washers and M8 Flat Washers used to secure the Clutch Cover as highlighted in **GREEN**.

Remove the Clutch Cover.



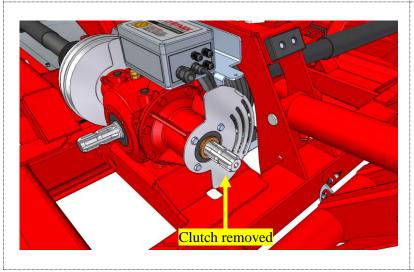
Remove the M10 x 35 **Metric Fine Bolt** and M10 Spring Washer from the centre of the Clutch.

Remove the large Retaining Washer from the centre of the Clutch.



## **IMPORTANT:**

Keep these parts separate from all other fasteners to prevent confusion later in this procedure.





Remove the Clutch from the Pegasus Gearbox.

**DO NOT** remove the two Thrust Washers behind the Clutch.

A Prybar can be inserted between the Clutch and the Gearbox to gradually apply leverage if required.



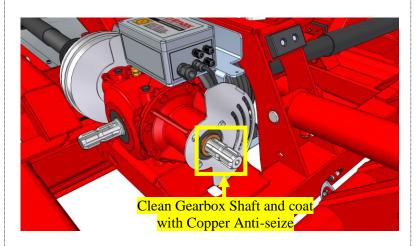




#### Note:

If the Clutch is seized onto the splined Gearbox Shaft, a few firm blows with a Soft Face Dead Blow Hammer to the back surface of the Clutch should break it free.

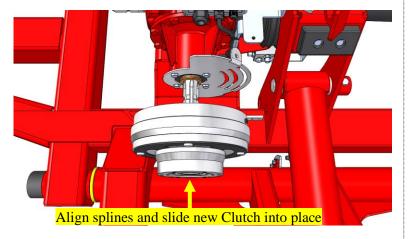
If this does not work, a Slide Hammer attached to the PTO Shaft mounting holes can also be used.





Clean the Splined Gearbox Shaft.

Apply a fresh coating of Copper Anti-seize to this shaft.

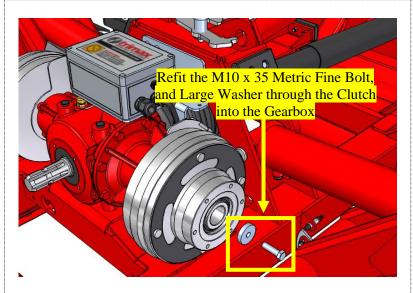




Collect the replacement Clutch and offer up to the Gearbox.

Ensure the Clutch is orientated as shown.

Align the internal splines in the Clutch with the external splines on the Gearbox Shaft and slide the Clutch onto the shaft as far as possible by hand.



Refit the large Retaining Washer to the Centre of the Clutch.

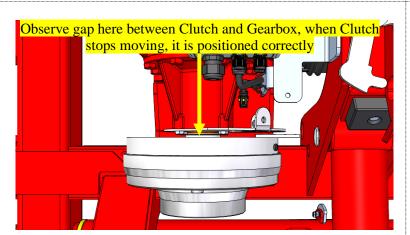
Refit the M10 x 35 Fine Thread Bolt through the Retaining Washer and into the Gearbox Shaft.

**DO NOT** fit the M10 Spring Washer at this stage as the Clutch still needs to be fully seated on the Gearbox Shaft!



## IMPORTANT:

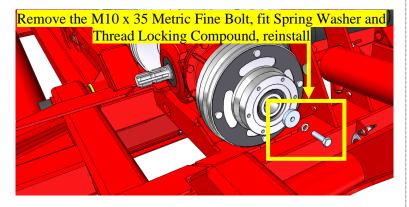
**DO NOT** use a Metric Coarse Bolt here, this will damage the internal threads in the Gearbox Shaft! This Bolt **MUST** be a Metric Fine M10 x 35 Bolt!



Gradually tighten the M10 x 35 Fine Thread Bolt.

Observe the distance between the Rear of the Clutch and the Gearbox while tightening this Bolt.

Once the Clutch does not move **INWARDS** any further, it is correctly seated on the Gearbox Shaft.



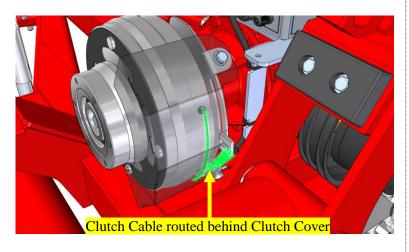
Remove the M10 x 35 Fine Thread Bolt.

Fit the M10 Spring Washer over the Bolt.

Apply **MEDIUM STRENGTH THREAD LOCKING COMPOUND** to the thread of the Bolt.

Refit this Bolt and Washer through the Retaining Washer into the Gearbox Shaft.

Fully Tighten.`



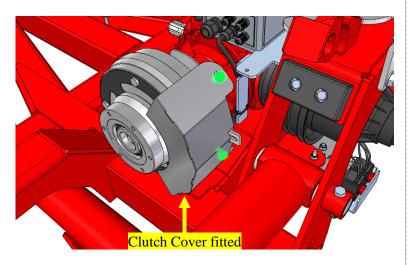


#### IMPORTANT:

During the next step, exercise caution when fitting the Clutch Cover.

The Clutch Cables can easily become pinched or severed if caught between the Clutch Cover and Mounting Bracket!

Prior to tightening the Clutch Cover fasteners ensure that the Cables are clear of any pinch points!



Offer up the Clutch Cover (410-000-357) to the Clutch Cover Mount.

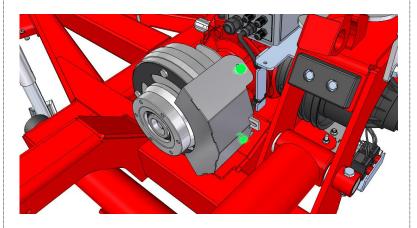
Ensure the that the Clutch Retaining Tag is secured in the slot in the Cover shown.

Loosely fit the two M8 x 16 Bolts, M8 Spring Washers and M8 Flat Washers as highlighted in **GREEN**.

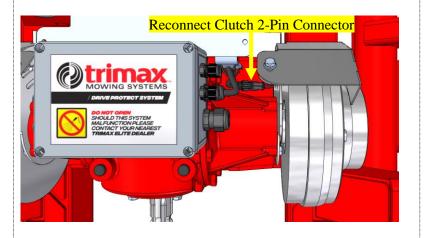


## **IMPORTANT:**

The Cables should run down the **INSIDE** of the Clutch Cover and out the bottom towards the **CENTRE** of the Chassis. Once again, be very careful not to sever or pinch the Cables!



Once the Cable is run as described, fully tighten the M8 x 16 Bolts used to secure the Clutch Cover as highlighted in **GREEN**.





Reconnect the Clutch to the Command Module by plugging in the 2-Pin Connector shown.





Reconnect the Main Power Cable to the Tractor and switch the Tractor ignition to the "ON" position.

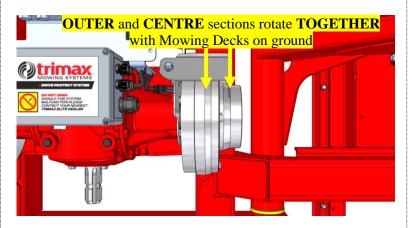
Ensure that the Tractor PTO output is **DISENGAGED**.



## **IMPORTANT:**

Ensure that the system is switched into one of its mowing modes, please consult your Operator's Manual for further detail.





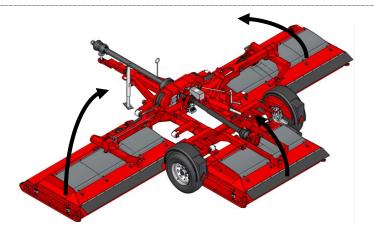


## **IMPORTANT:**

Check the operation of the Clutch. As the Mowing Decks are in the **LOWERED** position the Clutch should be engaged due to the Proximity Sensor being triggered.

Rotate the **OUTER** section of the Clutch by hand.

The **OUTER** section and the **CENTRE** section of the Clutch will rotate together and will also rotate the other shafts in the 4-Way Gearbox.



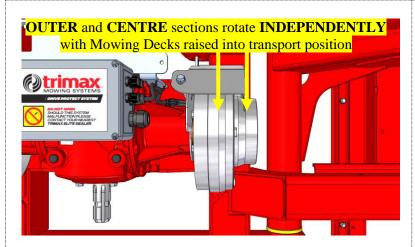
Start the Tractor, ensure that the Tractor PTO output is **DISENGAGED**.

Operate the Hydraulic Control Lever for the Pegasus to raise the decks to the transport position.



## **IMPORTANT:**

Ensure that the system is switched into transport mode, please consult your Operator's Manual for more detail.



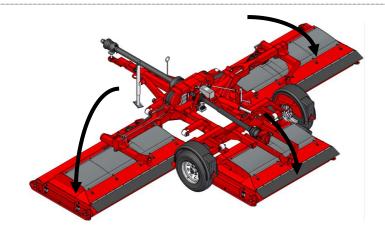


## **IMPORTANT:**

Check the operation of the Clutch. As the Decks are in the **RAISED** position the Clutch should be disengaged due to the Proximity Sensor circuit being not being triggered.

Rotate the **OUTER** section of the Clutch by hand.

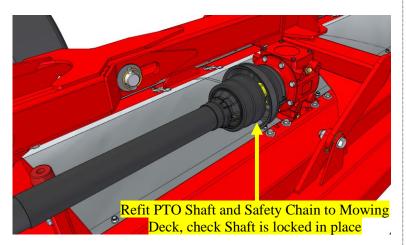
The **OUTER** section and the **CENTRE** section of each Clutch will rotate independently of each other and will **NOT** rotate the other shafts in the 4-Way Gearbox.



Following the operational checks, lower the Mowing Decks gently back down onto the ground.

Switch the Tractor ignition to the "**OFF**" position.

Ensure that the Tractor PTO output is **DISENGAGED**.



Refit these six Bolts

Refit the PTO Shaft to the Mowing Deck.

Depress the Push Pin, align the internal splines in the PTO Shaft with the external spines on the Gearbox Shaft.

Push the PTO Shaft fully onto the Gearbox Shaft. Release the Push Pin.



## **IMPORTANT:**

Once fitted, try to pull the PTO Shaft **AWAY** from the Gearbox to check that the PTO Shaft is locked in place correctly.

Refit the PTO Shaft to the Clutch using M10 x 30 Bolts and M10 Spring Washers.

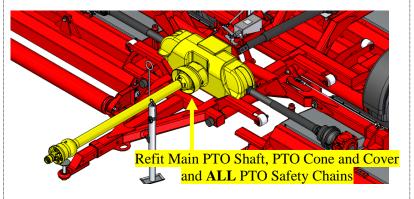
MEDIUM STRENGTH TREAD LOCKING COMPOUND is used on the threads of the Bolts.

Fully tighten **ALL** six M10 x 30 Bolts.



#### Note:

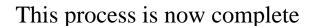
With the Clutches disengaged, it is possible to rotate this shaft to access all Bolt positions.



Refit the Drive Protect Module Cover, Wide Angle PTO Cone and the main PTO Shaft to their original locations as shown in **YELLOW.** 

Reattach ALL PTO Shaft Safety Chains to their original locations.

Installation is the reverse of removal.





# **HYDRAULIC VALVE BANK REPLACEMENT**



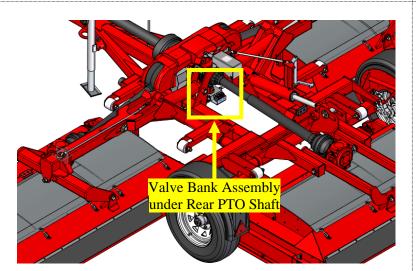


Switch the Tractor ignition to the "**OFF**" position and operate the Hydraulic Control Lever for the Pegasus up and down a few times to relieve any residual hydraulic pressure in the system.



## IMPORTANT:

High pressure hydraulic fluid is **EXTREMELY** dangerous and can cause serious injury or death!



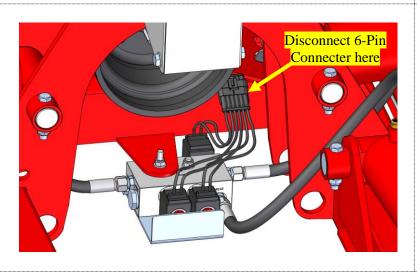
Clean the area around the Valve Bank Assembly underneath the Rear PTO Shaft thoroughly to remove dirt and debris.

The location of the Valve Bank Assembly on the Pegasus is highlighted in the image opposite for clarity.



## **IMPORTANT:**

A clean working environment is important when servicing hydraulic componentry. A small piece of debris can easily enter the system and damage seals, causing oil leaks and premature component failure.



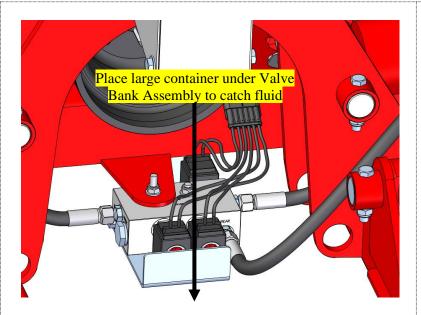


Disconnect the faulty Valve Bank Assembly from the Control Module by unplugging the 6-Pin Connector shown.



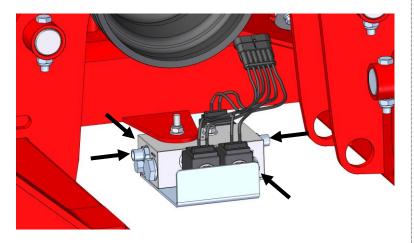
#### Note

The Rear PTO Shaft is hidden in this image and following images for clarity.



Place a suitable container directly underneath the Valve Bank Assembly.

This is to catch the hydraulic fluid when disconnecting the Hydraulic Lines.





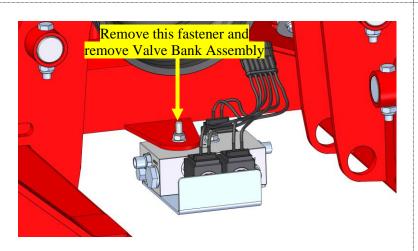


Using a 19mm Spanner, disconnect the four Hydraulic Lines that run into the Valve Bank Assembly, as shown by the arrows.



## **CAUTION:**

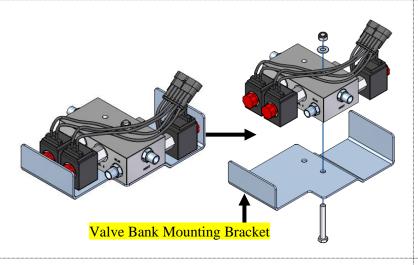
Residual hydraulic fluid may leak from hydraulic componentry during disassembly, this can create a slip hazard. Clean up as required.





Using two 13mm Spanners, remove the M8 x 75 Bolt, M8 Flat Washer and M8 Nyloc Nut used to secure the Valve Bank Assembly to the Pegasus Chassis.

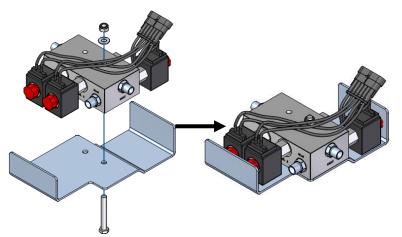
Remove the Valve Bank Assembly from the Pegasus Chassis.





Using two 13mm Spanners, remove the M8 x 60 Bolt, M8 Flat Washer and M8 Nyloc Nut used to secure the Valve Bank to the Pegasus Chassis.

Remove the Valve Bank Mounting Bracket from the Valve Bank.

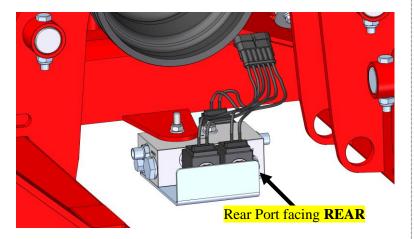


Collect the replacement Valve Bank (421-000-154)

Fit the Valve Bank Mounting Bracket to the Valve Bank using the same fasteners as the previous step.

Ensure that the hole shown is used.

Gently tighten this fastener.

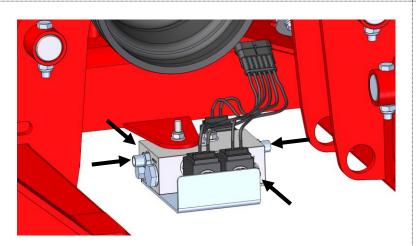


Offer up the replacement Valve Bank Assembly to the Pegasus.

Ensure that the port labelled "**REAR**" faces towards the **REAR** of the Pegasus.

Secure using the M8 x 75 Bolt, M8 Flat Washer and M8 Nyloc Nut.

Fully tighten **BOTH** fasteners. Ensure that the Valve Bank Assembly is **SQUARE** in relation to the Pegasus Chassis.



Refit the Hydraulic Lines to the Valve Bank Assembly as shown by the arrows.

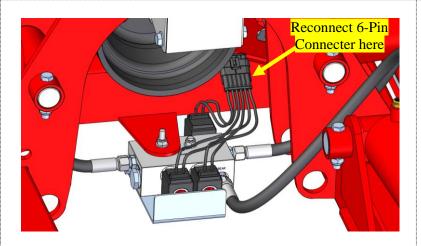
Fully tighten using a 19mm Spanner.

A 14mm Spanner should be used to prevent the Hydraulic Lines form twisting while tightening.



**IMPORTANT:** 

Ensure that these are tight to prevent leaks!





Connect the Valve Bank Assembly to the Control Module using the 6-Pin Connector.

Remove the container from under the Valve Bank Assembly.



## IMPORTANT:

Dispose of the hydraulic fluid in the container according to local environmental regulations.

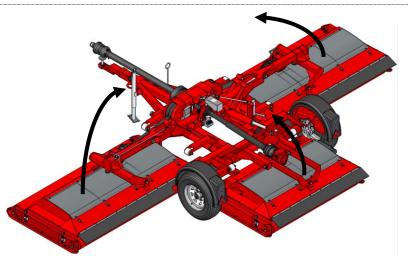




Reconnect the Main Power Cable from the Pegasus Chassis to the Tractor.

Ensure that the Tractor PTO output is **DISENGAGED**.

Start the Tractor.









Operate the Hydraulic Control Lever for the Pegasus to raise the decks to the transport position.

Visually check the hydraulic system for leaks. **DO NOT** use your hands to check for leaks.



## **IMPORTANT:**

High pressure hydraulic fluid is **EXTREMELY** dangerous and can cause serious injury or death!

Operate the Transport Locks and gently lower the Mowing Decks down onto the ground.

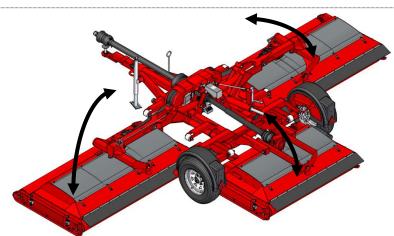
Repeat this step 2-3 times to purge any air from the hydraulic system.

Test that the Individual Lift and QuikLIFT functions work correctly.



#### Note:

For more detail on this process, please refer to your Pegasus Operator's Manual.





Following the Tractor Manufacturers procedure, check the hydraulic fluid level in the Tractor and top up with the appropriate fluid if required.



For more detail on this process, please refer to your Tractors Operator's Manual.

This process is now complete



# DRIVE PROTECT MODULE REPLACEMENT

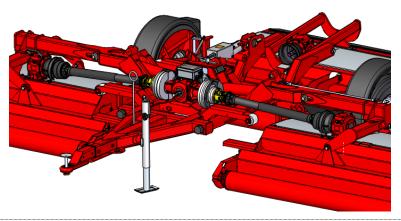


This section covers the removal and replacement of the main control unit – the Drive Protect module.

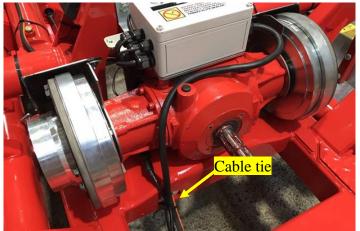
Replacement part numbers are shown below:

- MLS **421-000-160**
- ILS **421-000-161**
- QuikLIFT 421-000-162

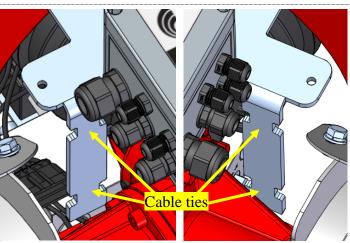
**Note:** Actual cable lengths vary from image shown.



Remove the Drive Protect module cover. The process for this is detailed earlier in this service guide.



Remove the cable tie securing the power cable, hand controller cable, and hydraulic line.



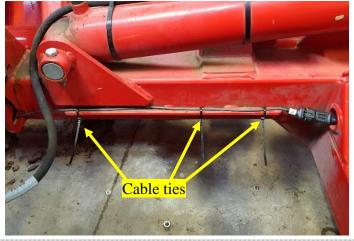
With the cover removed, there should be clear access to the Drive Protect unit.

Remove the cable ties securing the cables to the cable retention tabs on the enclosure mount.

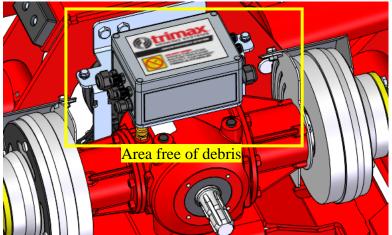


Note:

Cables not shown.



Remove the cable ties securing the rear Proximity Sensor to the Chassis.

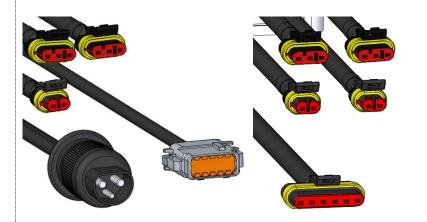


Clear any grass or debris away from the Drive Protect enclosure.

The enclosure lid will be opened and needs to be kept free of dirt, grass and moisture.

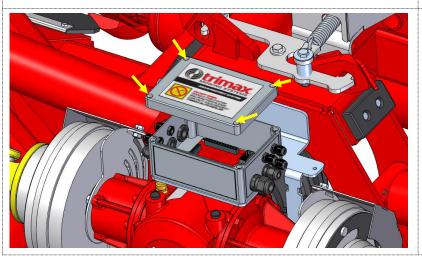


DO NOT use a pressure washer on the Drive Protect unit, particularly if the unit is going to be repaired.



Disconnect all the plugs connecting the Drive Protect unit. There are a total of 10 cables to be disconnected.

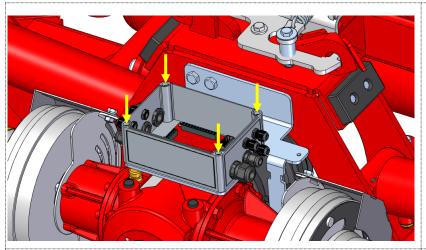
- 1x Power cable
- 1x Hand controller cable
- 3x Proximity sensor cables
- 1x PTO sensor cable
- 2x Clutch cables
- 1x Actuator cable
- 1x Valve bank cable



Using a flat head screwdriver, undo all four lid screws.

Do not fully remove the screws from the lid, simply undo them (counter clockwise) until they are no longer engaged in the thread.

Open the Drive Protect enclosure lid.



Using a Philips head screwdriver, undo the four M4 screws securing the enclosure to the mounting bracket.

Remove these screws and keep them. They will be used to mount the replacement unit.

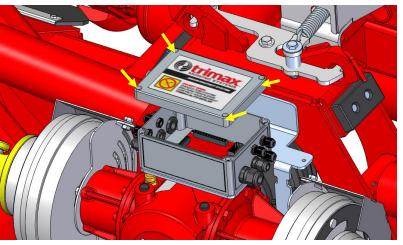
Remove the enclosure and re-fit the lid.



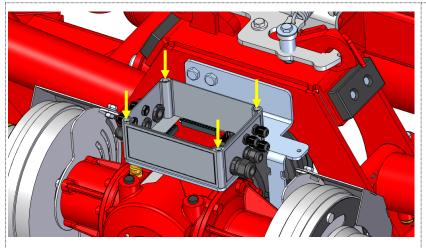
Collect the replacement Drive Protect unit.



Position the unit on the mounting bracket as shown. The Power Cable and Hand Controller cables should be on the left-hand side of the mower, as viewed from behind the mower.



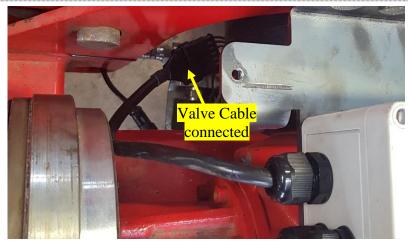
Using a flat screwdriver, remove the lid of the replacement unit.



Using the M4 screws set aside previously, fasten the unit to the mounting bracket.

Tighten the screws firmly but be careful not to damage the unit in the process.

Refit the enclosure lid and tighten all four screws with a suitable flat head screwdriver.



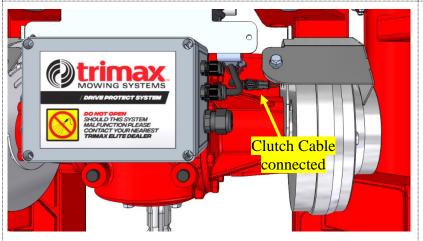
Reroute the cables:

Begin by connecting the 6 pin valve cable.



## Note:

On ALL connectors, ensure the clips close fully to ensure a secure, waterproof connection.



Connect the Clutch Cables on both sides. These are labelled "CL" and "CR".

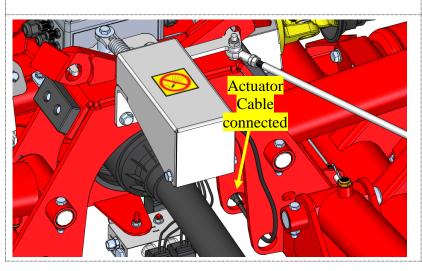
Connect "CL" to the left-hand Clutch.

Connect "**CR**" to the right-hand Clutch.

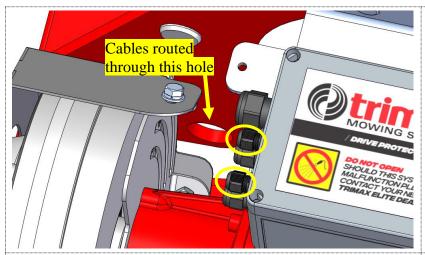


Note:

Left-hand Clutch shown.



Connect the cable labelled "UL" to the Unlock Actuator Cable.



On the left side of the enclosure (looking from the front) route the two remaining cables labelled "**PR**" and "**PB**" through the hole in the chassis as shown.

These cables will be tied out of the way later.

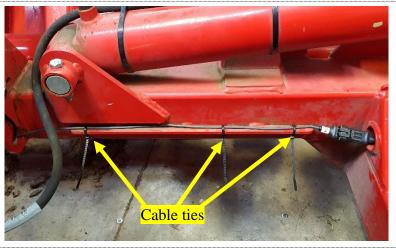


On the back of the ram tower, route the longer cable (labelled "**PB**") through the second hole in the chassis.

Connect the plug labelled "PR" to the right proximity sensor installed previously. Ensure the clips on the connector fully close.



Connect the plug labelled "**PB**" to the back Proximity Sensor installed previously.



Using 3 cable ties, secure the cable to the top of the cable routing guide on the chassis.

Trim the ends of the cable ties.

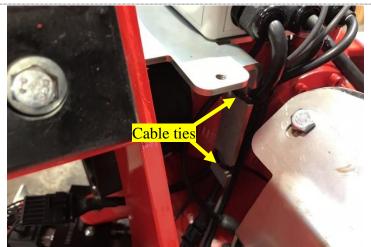


On the right side of the Enclosure (looking from the front) route the Hand Controller Cable (12 pin plug) across the back of the mounting bracket as shown.

Run this cable underneath the 4 way gearbox from the back of the mower toward the front.



Route the Hand Controller Connector (Socket end) through the cable loop from the front and connect the hand controller to the system.



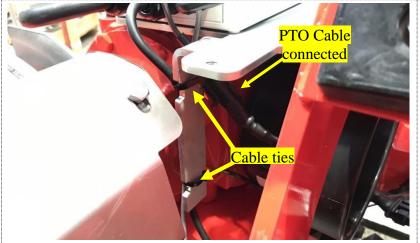
On the left side of the enclosure (looking from the front) use 2 cable ties to secure the cables on the left side of the enclosure to the legs of the mounting bracket as shown. Position the cable ties in the castellations of the bracket.

Trim the ends of the cable ties.



On the right side of the enclosure (looking from the front) route the cable labelled "**PL**" (with 3 pin plug) through the hole in the chassis under the ram tower.

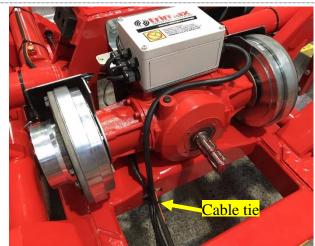
Connect the plug to the left-hand proximity sensor (as viewed from behind the mower).



Connect the short cable labelled "**PTO**" to the PTO Sensor as shown.

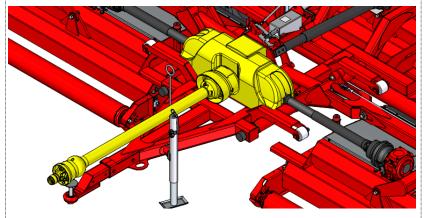
On the same side of the Enclosure, use 2 cable ties to secure the cables to the leg of the mounting bracket as shown. Position the cable ties in the slots of the bracket.

Trim the ends of the cable ties.



Route the power cable across the top of the 4-way gearbox and down to the hydraulic hose.

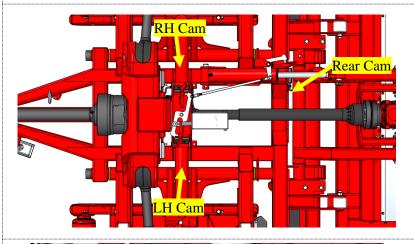
Use a cable tie to secure the power cable, hand controller cable and hydraulic hose together.



Refit the Drive Protect module cover, PTO cone and wide angle PTO shaft.



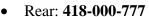
## PROXIMITY SENSOR CAM REPLACEMENT

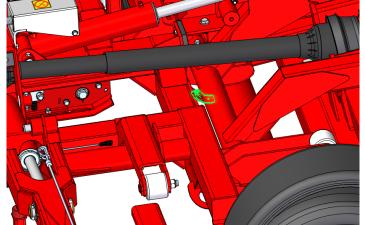


This section covers the removal and replacement of the proximity sensor cams attached to the outriggers.

Replacement part numbers are shown below:

LH & RH: 418-000-650







If the Rear Proximity Cam (highlighted in GREEN) is being replaced. The steps for adjusting the QuikLIFT height detailed below are not necessary as the cam plate is not adjustable. Simply swap the parts according to the fitment instructions below.





### **IMPORTANT!**

Replacing a proximity cam is a procedure that **MUST** be undertaken with care. The height of the left-hand and right-hand cams must be set very carefully to achieve the correct **QuikLIFT** height. If this is not done correctly the mower may be unsafe.

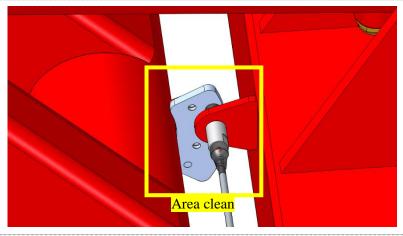




To remove a damaged proximity cam, put the system in **Transport** mode, fully raise all decks, ensure the transport locks are engaged, and attach the safety rope. Finally, disconnect the mower from the tractor.



This is extremely important for safety as the person performing the work will need to be under the mower.



Once the mower has been set up safely, clean the area around the damaged cam. Remove all grass, dirt and other debris.

The images shown in this section will be of the left-hand cam, however the process is the same for the right-hand cam. Any steps that are not the same will be identified and highlighted.



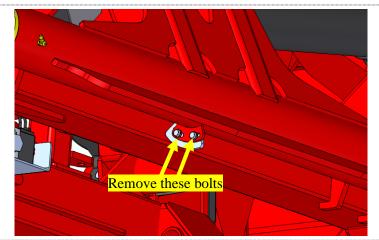
### Left and right-hand cams only.



### **IMPORTANT!**

If possible, use a scribe or marker pen to mark a reference point on the outrigger arm. This will assist with positioning the replacement cam.

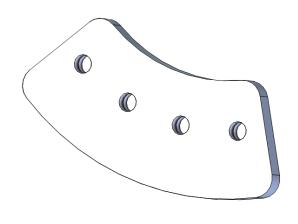
Once again, the position of the replacement cam is **VERY IMPORTANT**.



Remove both M6 bolts securing the cam to the outrigger arm.

Remove the damaged proximity cam.

Put the fasteners to one side. If they are damaged, replace them. Otherwise these should be reused.



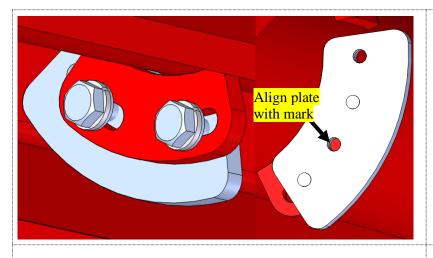
Collect the replacement part. LH & RH cam shown -418-000-650.

Apply **MEDIUM STRENGTH THREAD LOCKING COMPOUND** to the threads of the bolts before fitting them.

Using the two M6 bolts, two M6 spring washers, and two M6 flat washers, bolt the replacement proximity cam to the outrigger.

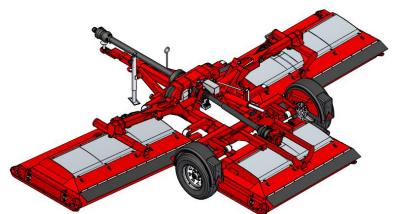
**Do not** fully tighten the bolts yet.





If fitting the **left or right-hand cam**, align the cam with the mark made previously and gently tighten the bolts to begin with.

If fitting the **rear cam**, gently tighten the bolts and move on to the next step.



Remove any tools from under the mower.

Remove the transport cable, put the system in **Transport** mode, disengage the transport locks, and fully lower all decks to the ground.



If your system has QuikLIFT, put the system into **QuikLIFT** mode.

Otherwise, put the system into the **ILS** mode for the proximity cam being replaced. For example, if replacing the left-hand cam, put the system into **ILS Left** mode and vice versa.

If replacing the rear proximity cam and the system does not have **QuikLIFT** mode, skip this step.



The QuikLIFT and ILS modes will be used to check the height the decks reach when either in QuikLIFT mode with decks raised, or when in ILS mode and the decks are paused partially raised for the blade spindown delay.

For more details on this, refer to your **Operator's Manual - Section 15k**, **QuikLIFT and ILS.** 





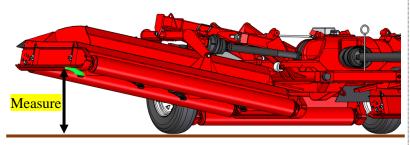
### **IMPORTANT:**

Ensure the PTO is disengaged!

Once in the correct mode, operate the hydraulic controls to raise the decks.

When the deck of interest stops at the QuikLIFT/spin-down height, stop operating the hydraulic controls.

Measure the height reached by the deck corresponding to the cam being replaced. See image shown.



Flat, level ground

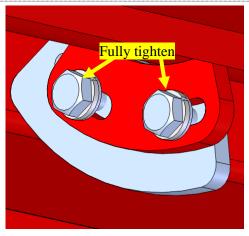


The **maximum height** of the highest blade edge when in QuikLIFT height should be no more than 400mm from flat ground. Any higher creates a serious safety hazard.



If any of the decks raise to a position where the **OUTERMOST** blade is higher than 400mm from flat, level ground, return the decks to the fully lowered position, adjust the proximity cam and recheck the deck height in the QuikLIFT or ILS spindown position.

Repeat this process until the **400mm** maximum condition is met. Aim for a height of between 300-400mm.



Once the correct height has been achieved, fully tighten the bolts securing the proximity cam to the outrigger.





# BEYOND THIS POINT ONLY AUTHORISED DEALERS ARE TO PERFORM THESE REPAIRS

Undertaking these repairs without the correct tools and training could cause damage to the mower and will not be covered under warranty.

# MLS DRIVE PROTECT CONTROL UNIT FUSE REPLACEMENT

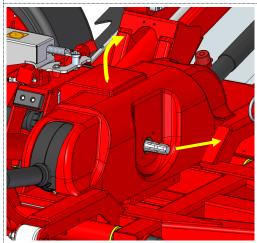


If the MLS Drive Protect control unit fuse blows it can be replaced.



### **Note:**

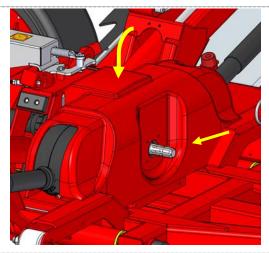
If the fuse has blown it could indicate a problem with the control unit or an electrical short. If the fuse has already been replaced and has blown again, this is likely the case.





Remove the central control unit cover and the Drive Protect enclosure lid as shown.

Using needle nose pliers, replace the 25A ATO fuse (clear fuse shown), with a **30A ATO fuse** (green).



Refit the enclosure lid and secure the lid screws.

Refit the fibreglass cover and tighten the bolts.



# <u>2 PIN SUPERSEAL SOCKET REPLACEMENT –</u> ACTUATOR





### Note:

The actuator cable can be replaced as a standalone part - part number: **421-000-094** 

If this cannot be sourced, the following instructions can be used to replace the socket only. The same method is used to replace the clutch socket.

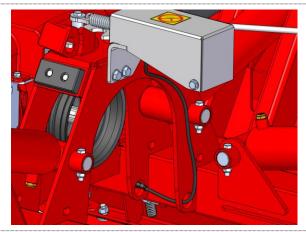




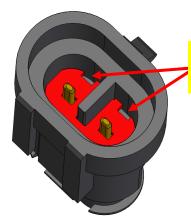


To perform this task, some tools are required:

- Superseal crimp tool Sealey
   AK3858 with H3 jaws
   (0.75mm & 1.0mm)
- Small flathead screwdriver
- Replacement socket kit 421-000-145
- Wire strippers
- Small hook to remove retention clip



Begin by disconnecting the actuator. Follow the process shown in the "Unlock Actuator replacement" section of this manual.



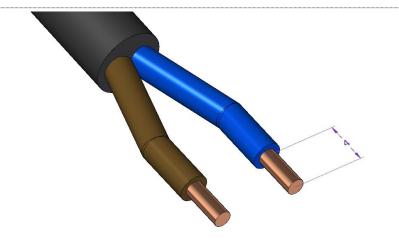
Pull out this clip using these castellations

Remove the damaged or faulty plug:

If there is enough slack in the wiring (at least 50mm), the cable can simply be cut near the plug end.

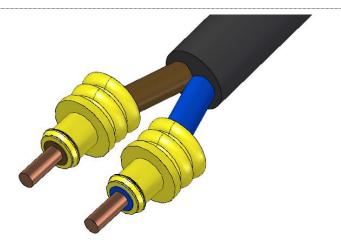
Otherwise, begin to disconnect the plug by removing the red retention clip.





Cut all wires other than the **BLUE** and **BROWN** back to the insulation. Leave only the blue and brown wires at around 30mm length.

Strip 4mm from the insulation of the blue and brown wires.



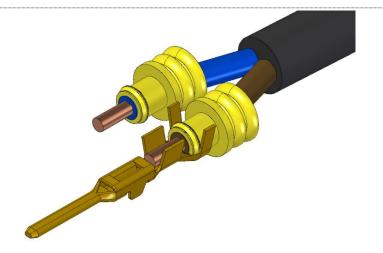
Apply one **1.8-2.4mm rubber seal** to each wire as shown. These are yellow in colour.

Align the end of the seal with the end of the insulation of each wire.



### Note:

It may be easier to apply the rubber seal before stripping the insulation.



Apply one **male** crimp terminal to each wire.

Ensure the larger tabs on the crimp are positioned over the small section of the wire seal, and the small tabs over the exposed wire.



Use the crimp tool shown to crimp the terminals to the wire and the wire seal.





Place the wire, seal, and crimp into the crimping tool in the orientation shown.

Crimp the terminal using the **1mm** slot on the crimp tool jaws.



### **Note:**

Green wire seals shown. These are smaller and are not used on the clutch or actuator. Female crimp shown. Do not use these.

Ensure the crimp and seal are correctly aligned in the jaws and that the wings of the crimps go into the jaws as shown.

Crimp until the ratchet in the tool releases.

Do this for both crimp terminals.

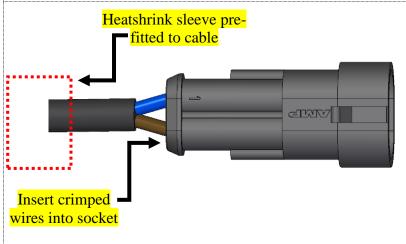


One completed crimp shown.



#### **Note:**

**DO NOT** Crimp the area shown, these tags retain the terminal in the Terminal Holder!

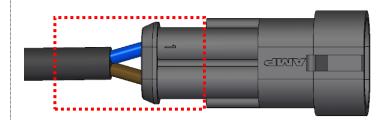


Slide a roughly 30mm long piece of black Ø10-12mm heatshrink onto the cable as shown.

Insert the crimped wires into the socket as shown.

Pin 1: Blue wire Pin 2: Brown wire

Ensure the crimps are locked into place by pulling on the wires with an appropriate amount of force.



Fit the heatshrink over the cable indicated in RED dashed lines.

Using a heat gun, heat the heatshrink so that it contracts tight around the plug and cable.

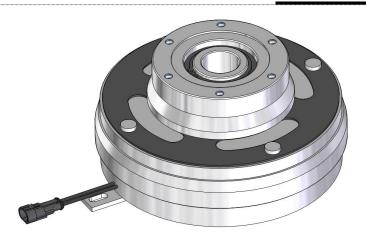


Finally replace the red clip into the socket and press inwards to lock the terminals in place. This should click when secured.

Both pins should be correctly aligned in the socket as shown.



# 2 PIN SUPERSEAL SOCKET REPLACEMENT – CLUTCH



If the clutch electrical socket is damaged, it can be replaced.

Follow the same procedure to dismantle the socket as shown in the "2 Pin Superseal socket replacement – actuator" section above.



### Note:

If there is enough slack in the wires, the plug can simply be cut off.

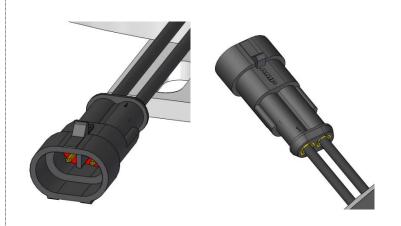
Once the plug is removed, replace it with 1.8-2.4mm wire seals (yellow), male crimps and a female socket included in the replacement kit **421-000-145**.



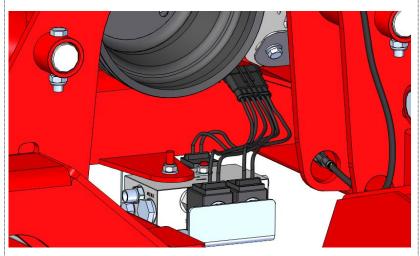
### Note:

The polarity is not important. The pins can be plugged into the socket in either orientation.





# <u>6 PIN SUPERSEAL SOCKET REPLACEMENT – VALVEBANK</u>



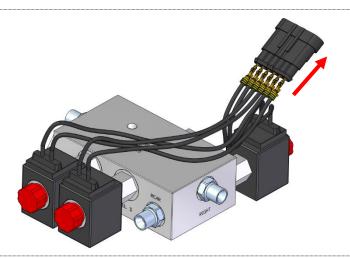
This section covers replacement of the 6 pin socket on the hydraulic valvebank.

If only the socket is damaged, this can be replaced by a Trimax dealer. Replacement kit: **421-000-152**.



### Note:

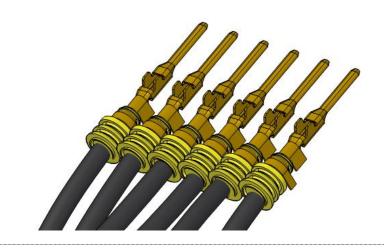
In the event of a damaged valvebank, the entire unit should be replaced. This procedure is provided above.



### Remove the socket:

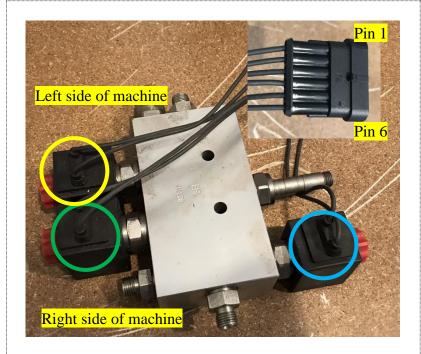
Remove the red retaining clip inside socket, use a screwdriver to depress the crimp retaining tags, and remove all wires from the socket.

This process is shown in more detail in the "2 Pin Superseal socket replacement – actuator" section.



If the pins are damaged, replace them following the same method as shown in the "2 Pin Superseal socket replacement – actuator" section.

Replace them with male crimps and 1.8-2.4mm wire seals. These are included in the socket replacement kit.



Finally, insert the wires into the socket as shown.



Each individual valve is not polarity specific. Provided the wire pairs are connected to the correct 2 pins on the socket, the polarity does not matter.

Sol A: Not used Sol B: Pins 5 & 6 Sol C: Pins 1 & 2 Sol D: Pins 3 & 4



The pin numbers are written on the socket

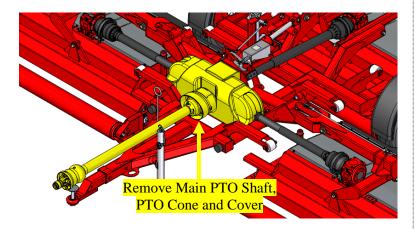


# DRIVE PROTECT MODULE CABLE REPLACEMENT – SENSORS, POWER, CLUTCHES AND ACTUATOR



In the event of a broken cable or plug on the Drive Protect enclosure, it is possible to replace the damaged cable, rather than replacing the entire unit.

For part numbers of individual cables, refer to the spare parts listing provided with the mower.



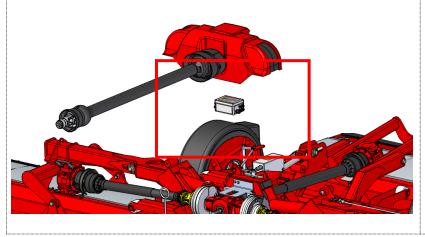


Remove the Main PTO Shaft, Wide Angle PTO Cone and the Drive Protect Module Cover as highlighted **YELLOW** in the image opposite.



#### <u>Note:</u>

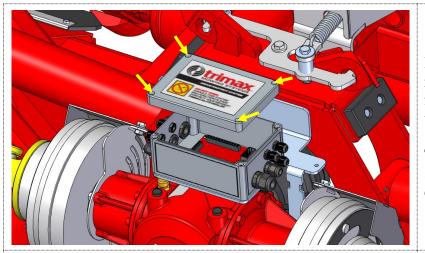
For more detail on this process, please refer to "Drive Protect module cover replacement" section of this Service Guide.



Removing the Drive Protect module may make the cable replacement process easier.

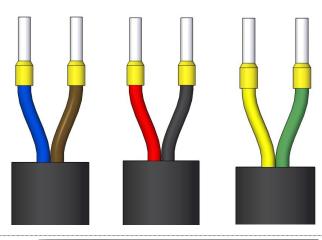
If required, remove the Drive Protect module.

For more detail, refer to the section "Drive Protect module replacement".



If removing a faulty cable without removing the Drive Protect module from the mower, begin by removing the lid.

To do this simply undo the 4 flathead screws securing the lid to the enclosure and lift off the lid.

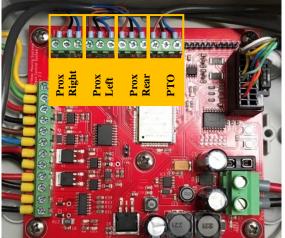




### **IMPORTANT**:

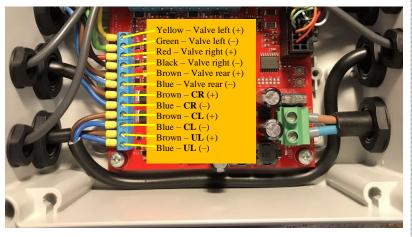
Different wire and component colours may be used for the Drive Protect module than those shown.

For example: Wire pair colours such as red and black, can be used interchangeably with brown and blue, or another pair of colours. Keep this in mind when working on wiring.



The standard pinout for the circuit board input is shown here and in the next instruction step.

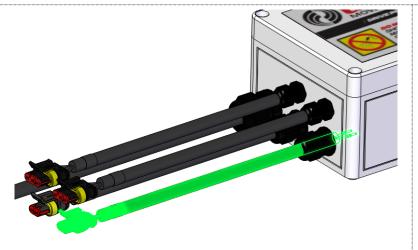
All sensors are wired positive, signal, negative from left to right. In the image shown, this is brown, black, blue.





### **IMPORTANT**:

First, identify which cable inside the enclosure corresponds to the faulty cable.



The process for replacing a cable will be detailed using the Unlock Actuator Cable as the example.

Lid shown for reference.



Undo the gland sealing nut for the cable which is being replaced.

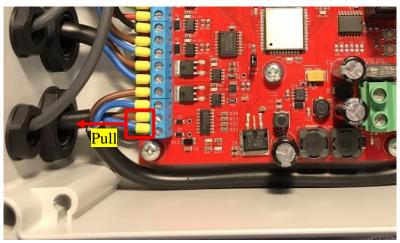
This should be "finger tight", however if not, an appropriately sized open-ended spanner or crescent wrench can be used to loosen the nut.

Lid shown for reference.



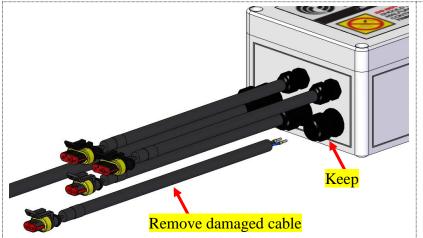
Using a flat head screwdriver, undo the screw terminal securing the faulty cable to the circuit board.

Be careful not to damage any components on the circuit board.



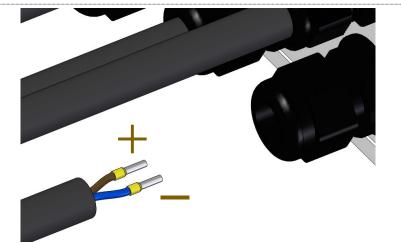
Carefully remove the wires from the circuit board screw terminals.

A pair of needle nose pliers may make this process easier.



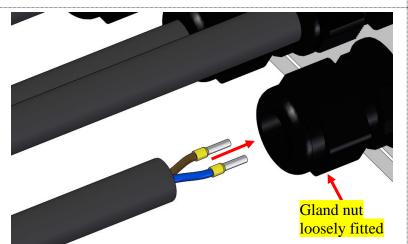
The cable can now be removed from the enclosure.

If the gland nut falls off, set this to one side or partially re-fit it to the enclosure as it is needed.



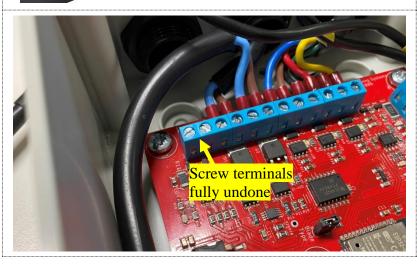
Collect the replacement cable to be fitted.

Identify the positive and negative wires of the cable. These should be either brown and blue, red and black, or yellow and green.



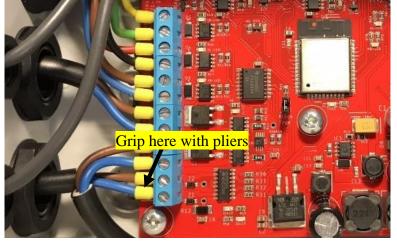
Loosely fit the gland sealing nut onto the gland as shown to ensure the gland nut is facing the right way and will not be forgotten. Do not tighten the nut.

Insert the cable into the enclosure through the gland.



Completely loosen the screws on the screw terminal for the cable being replaced. This makes it easier to fit the ferrule into the screw terminal block.

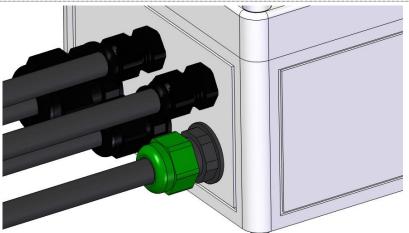
Leave the remaining screw terminals as they were. These should not need to be adjusted.



Fit the wires into the screw terminals in the polarity shown.

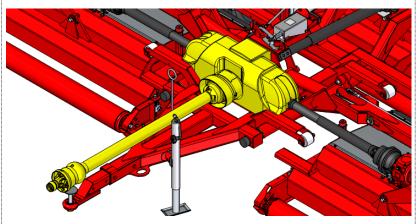
It may be easier to use a small pair of needle nose pliers gripping the ferrules to insert the wires into the terminals.

Tighten the screw terminals securely.



Finally, tighten the gland nut (highlighted in **GREEN**) such that the cable cannot slide back and forth inside the gland sealing ring as indicated.

This provides strain relief and ensures a watertight seal.

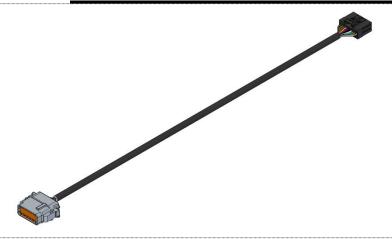


Refit the Drive Protect module, cover, PTO Cone, and wide-angle PTO shaft.

More details on these processes can be found in sections "Drive Protect module cover replacement" and "Drive Protect module replacement".

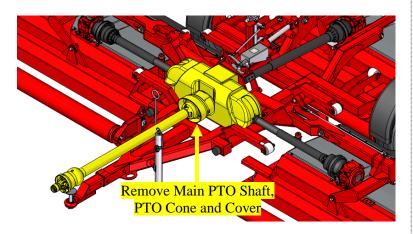


# DRIVE PROTECT MODULE CABLE REPLACEMENT – HAND CONTROLLER



In the event of a broken hand controller cable or plug on the Drive Protect enclosure, it is possible to replace the damaged cable, rather than replacing the entire unit.

This is a more complex procedure than replacing the cables in the previous section and should not be undertaken without training and the correct tools.



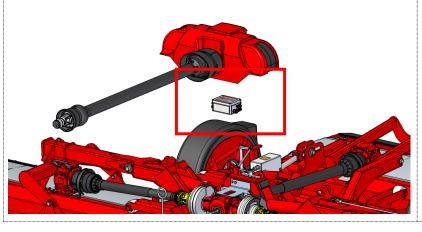


Remove the Main PTO Shaft, Wide Angle PTO Cone and the Drive Protect Module Cover as highlighted **YELLOW** in the image opposite.



#### Note:

For more detail on this process, please refer to "Drive Protect module cover replacement" section of this Service Guide.



Removing the Drive Protect module may make the cable replacement process easier.

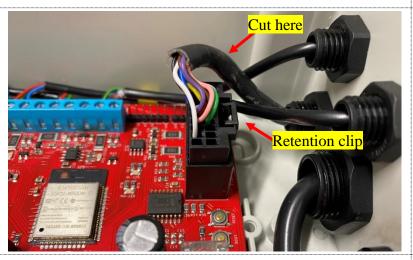
If required, remove the Drive Protect module.

For more detail, refer to the section "Drive Protect module replacement".



Once the Drive Protect unit is set up and ready to be worked on, the hand controller cable can be removed.

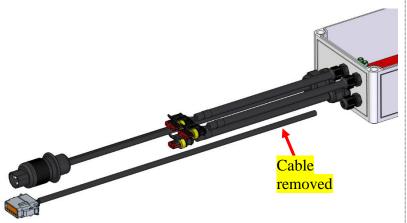
Begin by loosening the gland sealing nut securing the cable. The cable should be able to slide in and out a little.



Unplug the cable from the circuit board by pressing the retention clip and pulling upwards on the 20-pin plug.

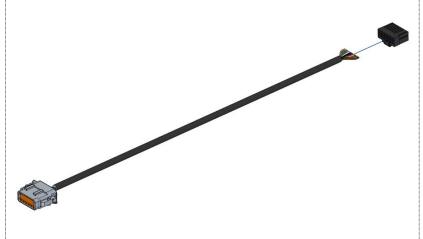
Once the plug is removed from the circuit board, cut the plug off INSIDE THE ENCLOSURE. This will enable removal of the wire without removing the pins from the plug.

Keep the 20-pin plug end. This will be used later.

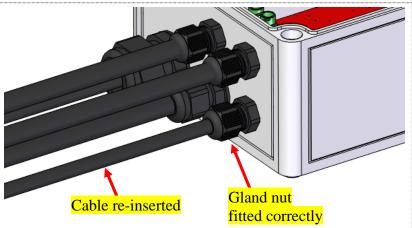


Remove the cable from the enclosure.

Keep the gland nut loosely fitted to the enclosure.



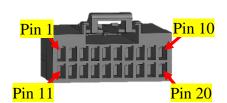
The replacement cable will be supplied with the plug disconnected. This enables the cable to be inserted into the enclosure. The pins are then inserted into the plug afterwards.



Insert the cable into the enclosure. The wires may need to be inserted one at a time and pulled through.



Ensure the gland sealing nut is fitted and is facing the right way.



Pin 1 = Black (Ground)

Pin 2 = White (Unlock Button)

Pin 3 = NC Pin 4 = NC

Pin 5 = Blue (LED5)

Pin 6 = Pink (LED3)

Pin 7 = Green (LED1)

Pin 8 = NC

Pin 9 = NC

Pin 10 = NC

Pin 11 = Grey (Mode Button)

Pin 12 = NC

Pin 13 = NC

Pin 14 = NC Pin 15 = Yellow (LED UL)

Pin 16 = Cyan (LED4)

Pin 17 = Orange (LED2)

Pin 18 = NC

Pin 19 = Red (3.3V)

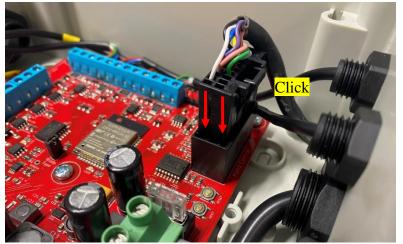
Pin 20 = NC

Note: Purple and Brown unused

Insert the pins into the 20-pin plug in the same orientation as the previously cut-off plug.

The wire colours should match.

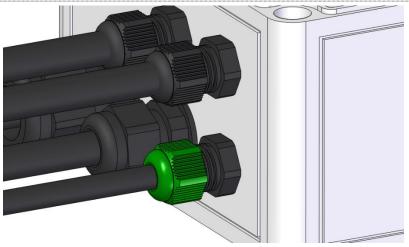
If plug is damaged or pins are no longer inserted, refer to the pin assignment in the image shown.



Plug the cable into the circuit board.

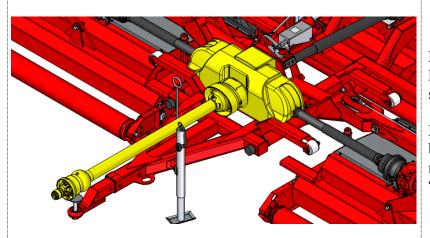
An audible click should be heard as the plug clips into the socket on the circuit board.

Give the cable a gentle tug to ensure the plug has engaged properly.



Tighten the gland with a small amount of slack cable inside the enclosure, around 25mm.

The cable should not be able to slide back and forth inside the gland once tightened.



Refit the Drive Protect module, cover, PTO Cone, and wide-angle PTO shaft.

More details on these processes can be found in sections "Drive Protect module cover replacement" and "Drive Protect module replacement".

