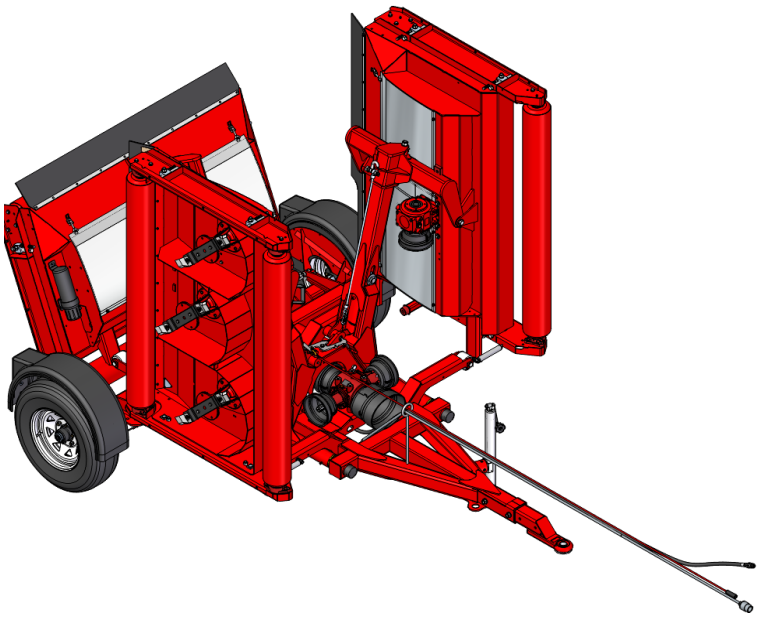
trimax MOWING SYSTEMS	SPARE PARTS INSTRUCTIONS #59
Date Created: 16/03/2018	**Product:** Pegasus
Title: QuikLIFT Upgrade	

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.

This Assembly Procedure covers the fitment of an QuikLIFT Kit **(807-000-010)** to a **COMPLETE** Pegasus S4.

The same process is followed for **BOTH** the 493 and 610 Pegasus S4 Models!



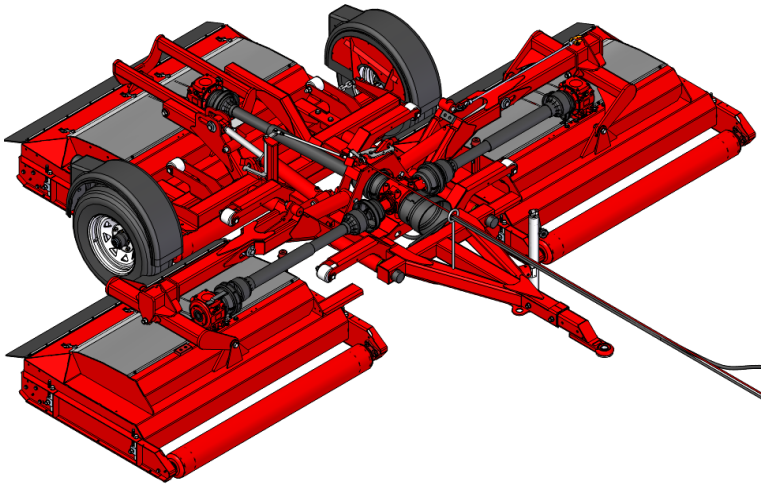
Collect the Pegasus S4 which is to have the QuikLIFT Kit fitted.

Position in the work area.

IMPORTANT:
Check the serial number to ensure it is the correct machine.

Disconnect the Safety Cable from Right-Hand Outrigger Arm.

Reconnect the Safety Cable to the Storage Lug present on the Left-Hand Outrigger.



Attach the Hydraulic Power Pack to the Main Hydraulic Hose.

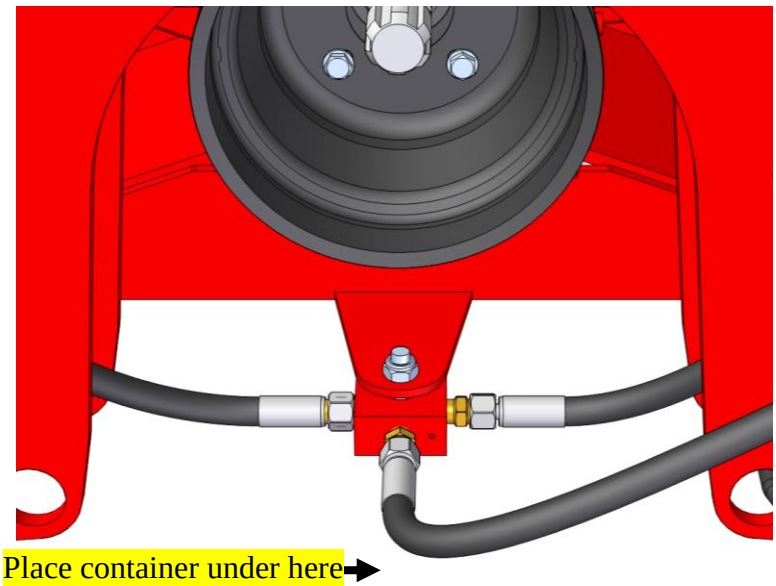
Raise the Decks to their **MAXIMUM.**

Operate the Transport Lock System using the Release Rope.

Lower the three Decks down onto the Ground.

Relieve the pressure and disconnect the Power Pack.

Note:
Ensure the **RUBBER MATS** are placed under the Decks to minimise paint damage to the Rollers!

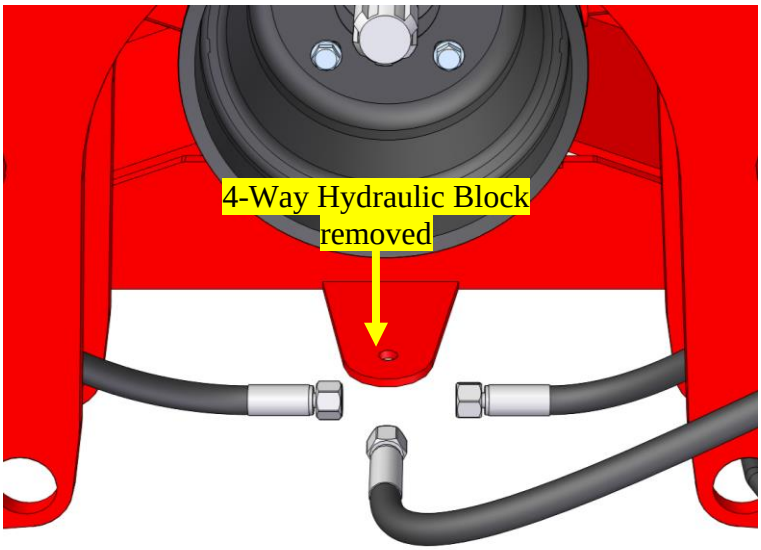


Place a suitable Container underneath the 4-Way Hydraulic Block **(408-448-500)**

Use a spanner to slacken the four Hydraulic Hoses connected to the Block.

Allow the Hydraulic Oil to drain into the Container.

Note:
PTO hidden in image for clarity.



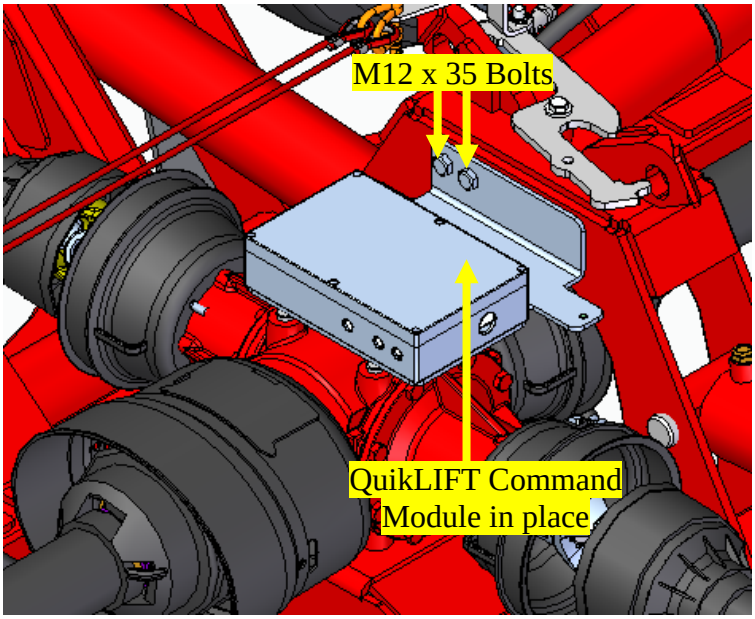
Disconnect the Hydraulic Hoses completely from the 4-Way Hydraulic Block.

Continue to allow the Oil to drain into the Container.

Remove the 4-Way Hydraulic Block from the Chassis.

IMPORTANT:
The 4-Way Hydraulic Block **MUST** be returned to stock at the end of this process!

IMPORTANT:
Ensure that the waste hydraulic oil is disposed of in accordance with local regulations regarding waste oil disposal!



Offer up the QuikLIFT Command Module **(505-000-008)** to the **TOP** of the 4-Way Gearbox.

The folding in the Bracket faces the **REAR** of the Chassis.

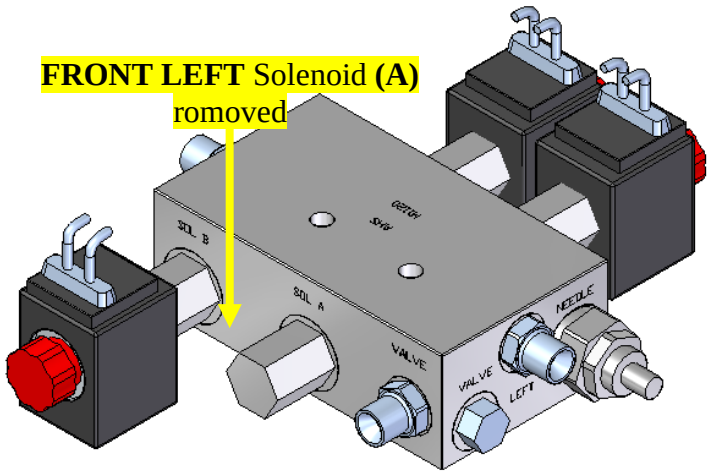
Secure using two M12 x 35 Bolts fitted from **OUTSIDE** the Lift Frame and two M12 Nyloc Nuts fitted from **INSIDE**.

Hand tight at this stage.

Pass the Grey Command Cable and the Main Power Cable **UNDER** the Right-Hand Side of the QuikLIFT Command Module as shown.

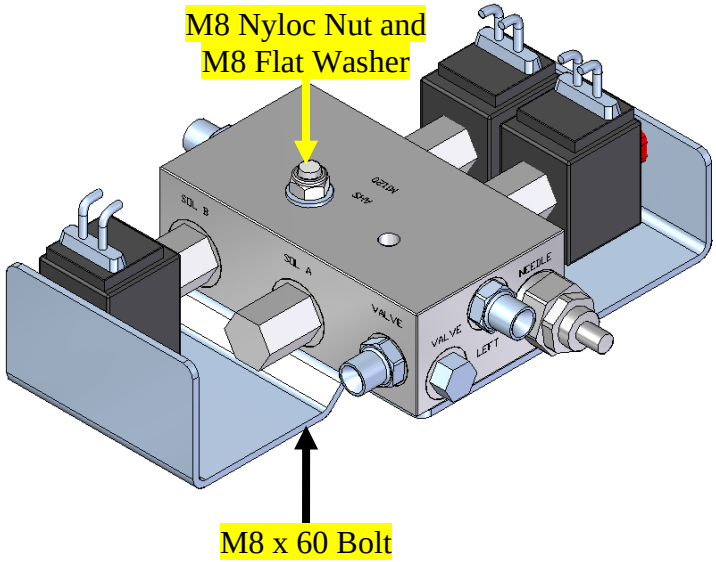
Fully tighten the Mounting Bolts.

Note:
This is to allow the Command Cable and the Main Power Cable be Bundled with the Main Hydraulic Hose with Spiral Wrap later in this procedure!



IMPORTANT:
The **FRONT LEFT** Solenoid **(A) MUST** be removed from the Valve Bank **(409-000-043)** as shown.

Note:
The Valve Bank has engraved text which denotes its orientation when fitted to the Chassis!

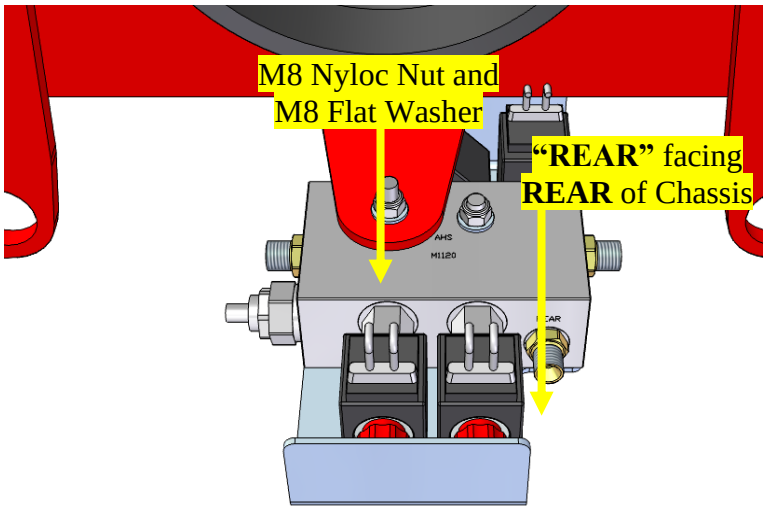


Offer up the Mounting Bracket **(418-000-398)** to the **BOTTOM** of the Valve Bank.

Align the Holes in the Bracket with the Holes in the Valve Bank.

Inset an M8 x 60 Bolt the Hole shown from **UNDERNEATH.**

Secure with an M8 Flat Washer from **ABOVE** and an M8 Nyloc Nut and fully tighten.



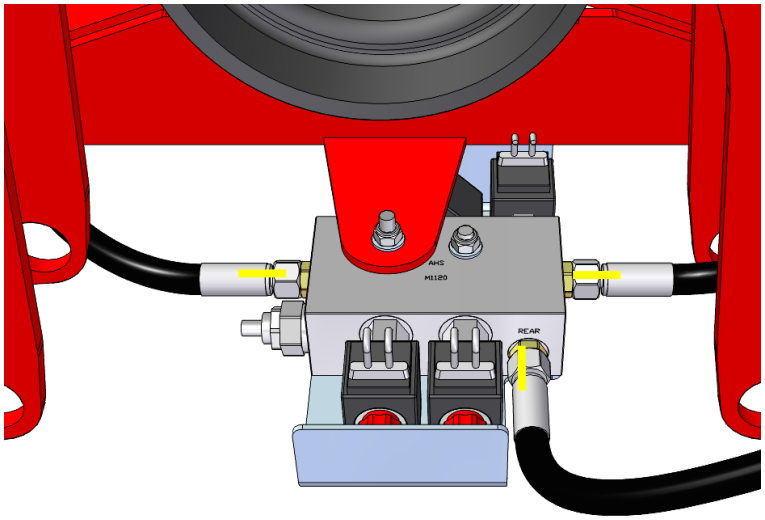
Offer up the Valve Bank Assembly to the Hydraulic Block Mounting Tag on the Pegasus Chassis.

Ensure the text **"REAR"** on the Valve Bank faces the **REAR** of the Chassis.

Secure in place using an M8 x 70 Bolt fitted from **UNDERNEATH** and an M8 Flat Washer and M8 Nyloc Nut fitted from **ABOVE.**

Fully tighten.

Note:
Ensure the Valve Bank Assembly is fitted **SQUARE** to the Chassis!

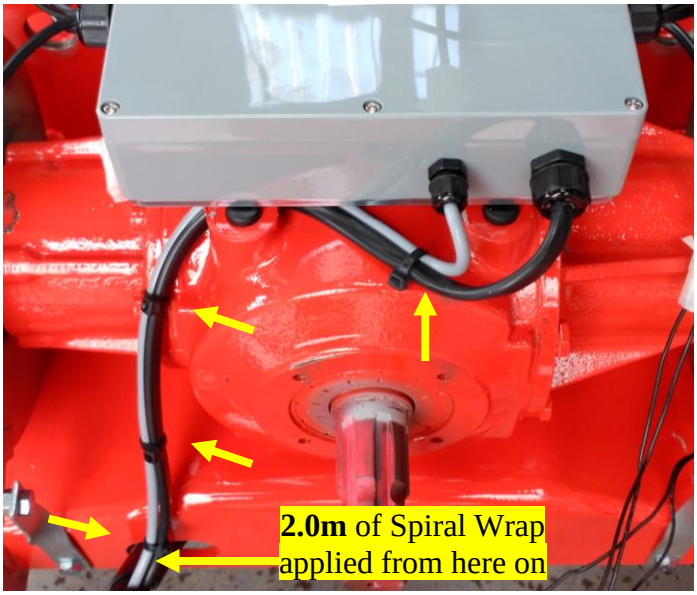


Reconnect the four Hydraulic Hoses to their relevant ports on the Valve Bank Assembly.

Fully tighten in place.

After tightening, stripe each fitting with a **YELLOW** Paint Marker.

Note:
When tightening, use a second Spanner on the Hose Fitting to ensure the Hoses **DO NOT** become twisted!

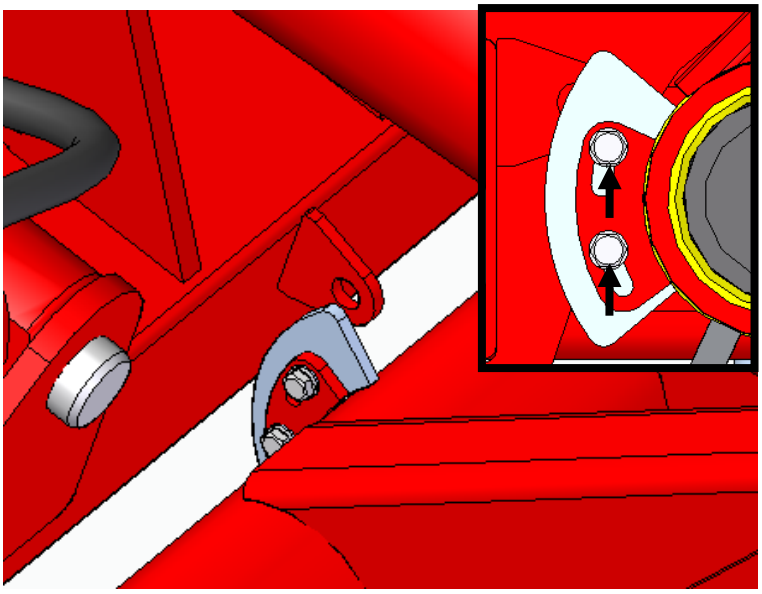


Secure the Command Cable and the Main Power Cable together using four Cable Ties in the locations shown.

Approximately **150mm** spacing between Cable Ties. Once secured, trim the tails of the Cable Ties.

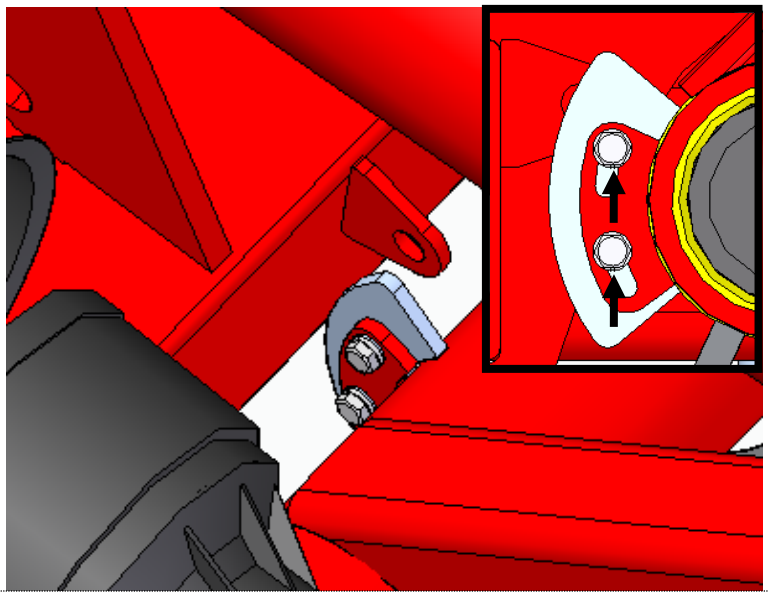
Tidily bundle the Main Hydraulic Hose, Main Power Cable, Command Cable and any other Main Cables together. Apply **2.0m** of Spiral Wrap to this bundle beginning at the Gearbox Mount towards the **FRONT** of the Chassis.

Note:
If Spiral Wrap is already applied (i.e. for Tail Lights or Brakes) remove this first, then apply the new wrap**!**



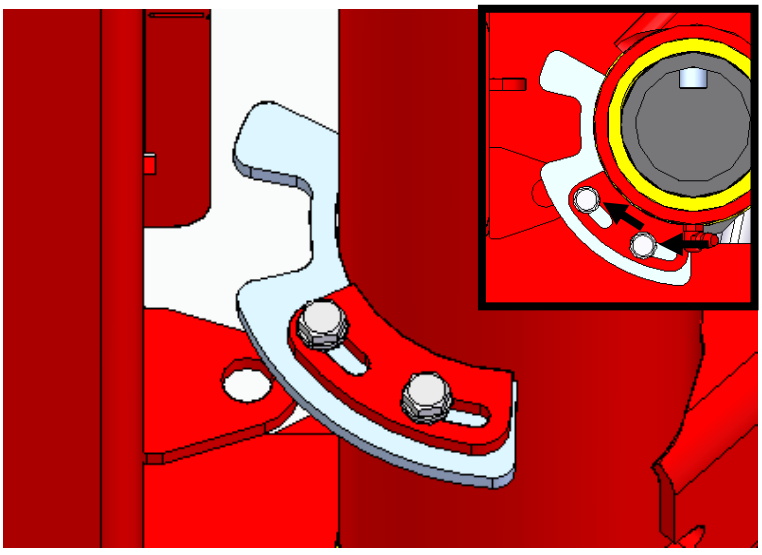
Right-hand QuikLIFT Cam
Using 2x M6x16, 2x M6 Spring Washer and 2x M6 Flat Washers, position prox cam as shown in the insert.

Note:
Fasteners positioned at the top of the slot as shown by the arrows in the insert.



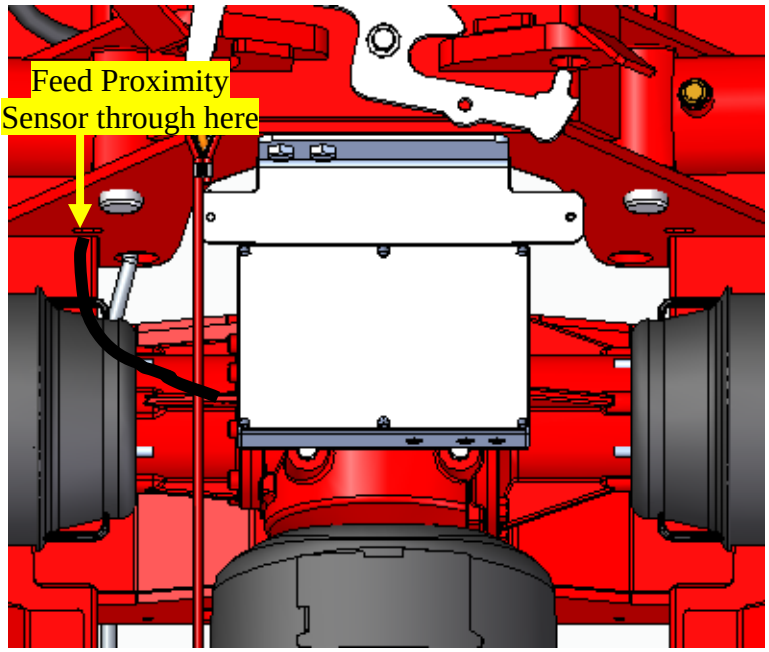
Left-hand QuikLIFT Cam
Using 2x M6x16, 2x M6 Spring Washer and 2x M6 Flat Washers, position prox cam as shown in the insert.

Note:
Fasteners positioned at the top of the slot as shown by the arrows in the insert.



Rear QuikLIFT Cam
Position Cam **(418-000-652)** using 2x M6x16, 2x M6 Spring Washer and 2x M6 Flat Washers, position prox cam as shown in the insert.

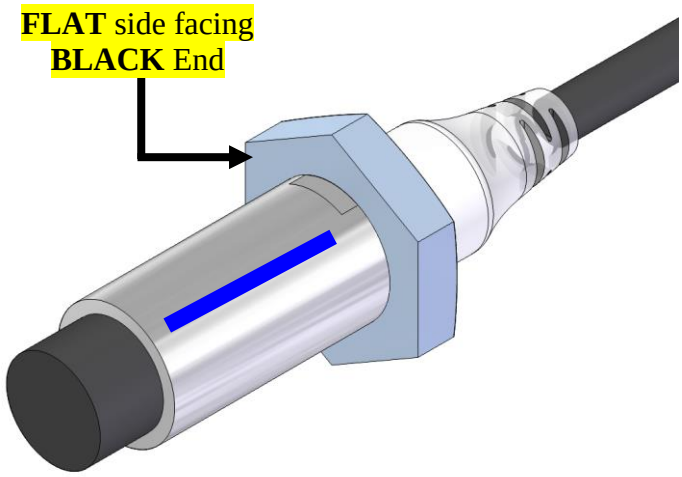
Note:
Fasteners positioned at the top of the slot as shown by the arrows in the insert.



Remove the Nuts from the **RIGHT-HAND** Proximity Sensor.

Run the Proximity Sensor **DOWN** between the Gearbox and the Lift Frame.

Pass through the small oval hole near the **TOP** of the **RIGHT** Chassis Rail.

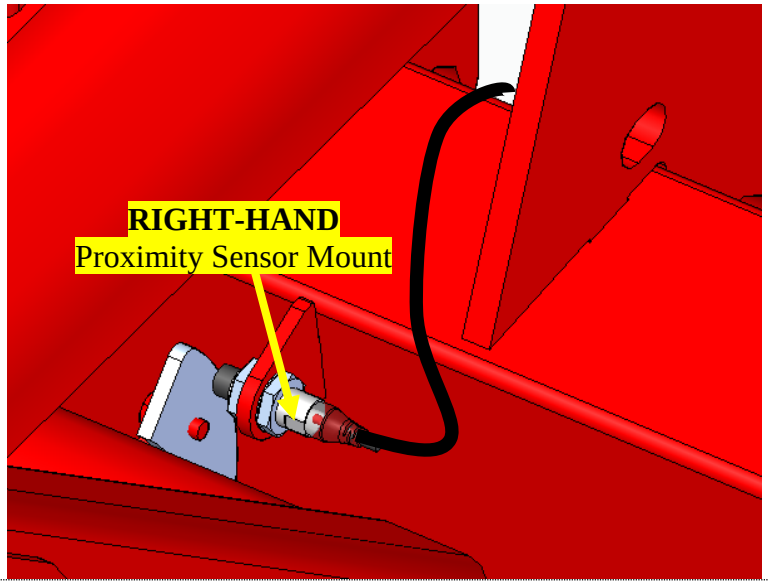


Apply **Loctite 243** to the thread on the Proximity Sensor.

Refit one of the Nuts to the Sensor.

Wind this on towards the end of the thread.

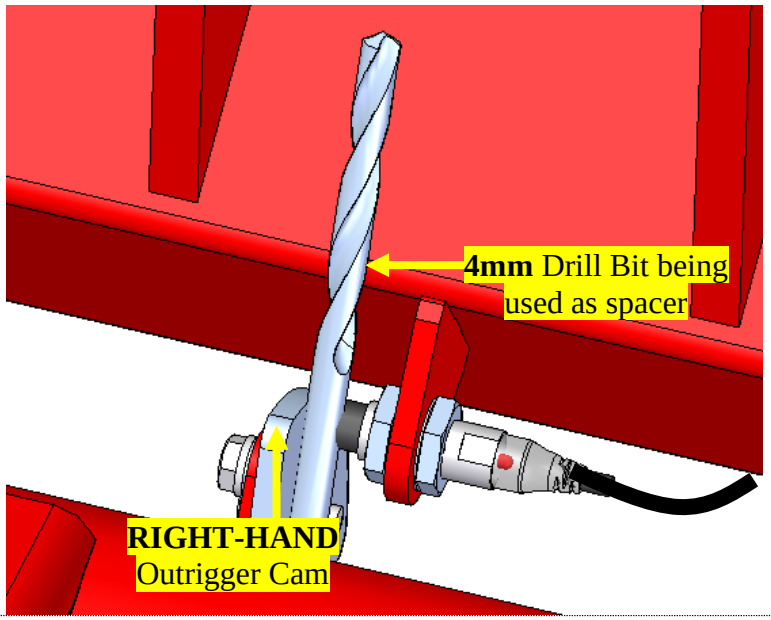
Note:
Ensure the **FLAT** side of the Nut is facing the **BLACK** end of the Sensor.



Pass the **BLACK** end of the Sensor through the **RIGHT-HAND** Proximity Sensor Mount as shown.

Refit the other Nut to the Sensor

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

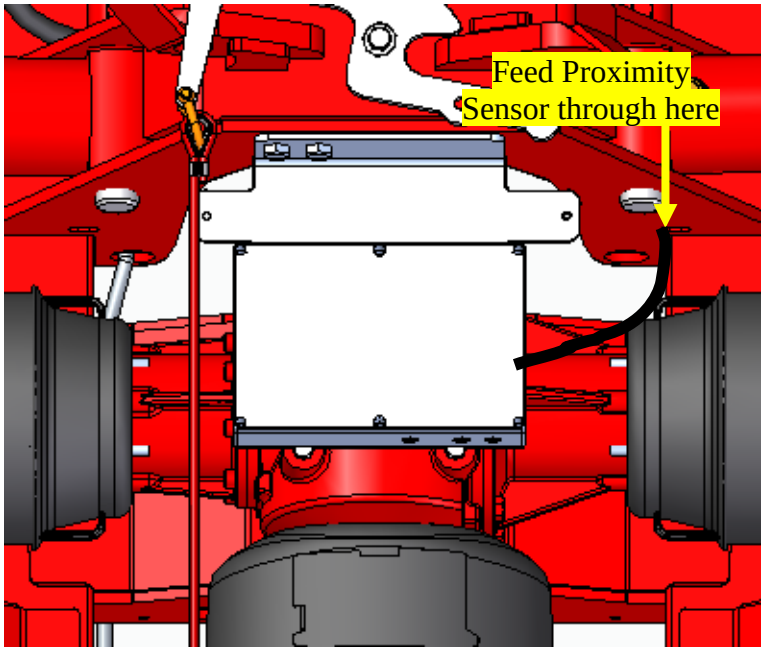


Set the **BLACK** end of the Proximity Sensor **4mm** away from the Cam on the Outrigger Arm.

A **4mm** 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 become damaged!

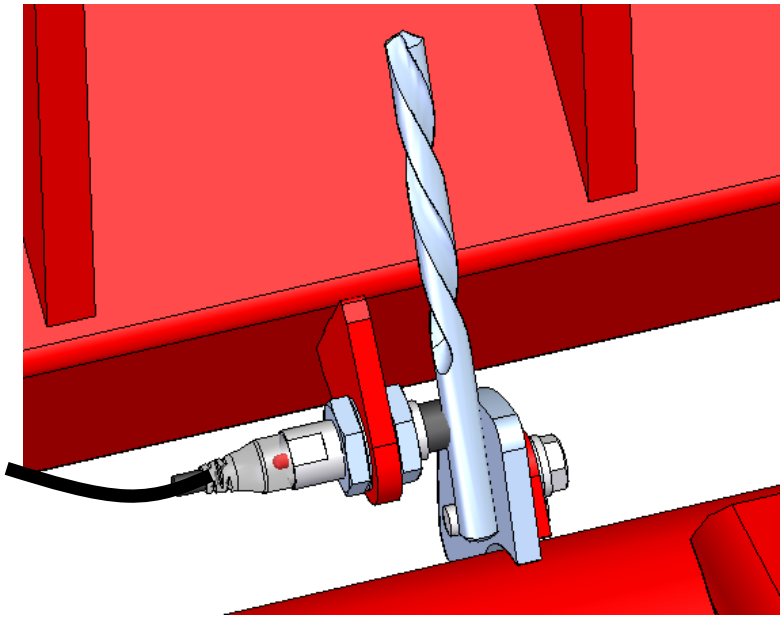
IMPORTANT:
The System may malfunction if set incorrectly!



Remove the Nuts from the **LEFT-HAND** Proximity Sensor.

Run the Proximity Sensor **DOWN** between the Gearbox and the Lift Frame.

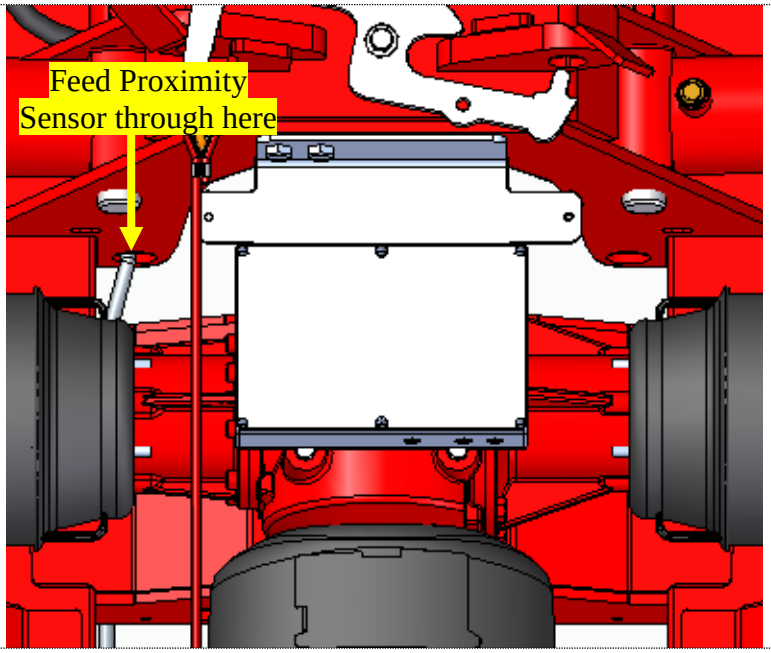
Pass through the small oval hole near the **TOP** of the **RIGHT** Chassis Rail.



Repeat the above steps for the **LEFT-HAND** Proximity Sensor.

The process is **IDENTICAL.**

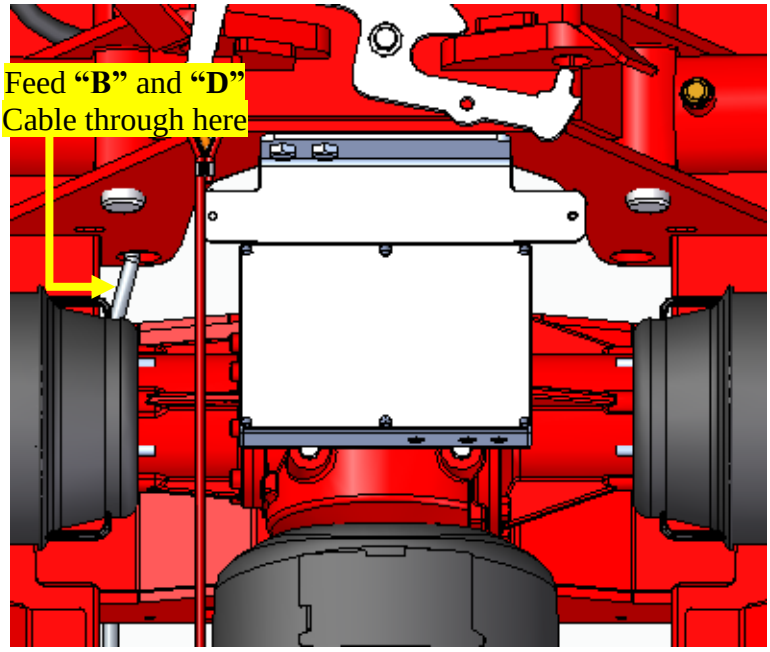
IMPORTANT:
The Left-Hand Sensor faces the **OPPOSITE** direction!



Remove the Nuts from the **REAR** Proximity Sensor.

Run the Proximity Sensor **DOWN** between the Gearbox and the Lift Frame.

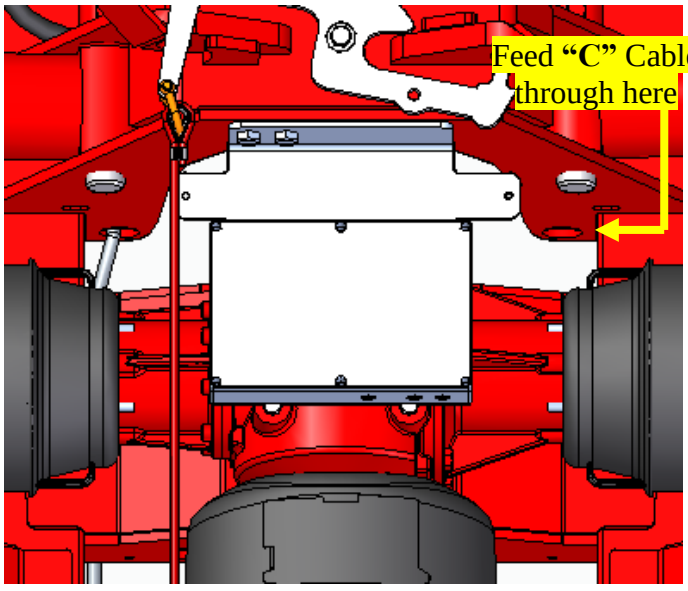
Pass through the small oval hole near the **TOP** of the **RIGHT** Chassis Rail.



Identify the two Cables labelled **"B"** and **"D"** attached to the Command Module.

Run these Cables along the same path as the Right-Hand Proximity Sensor Cable.

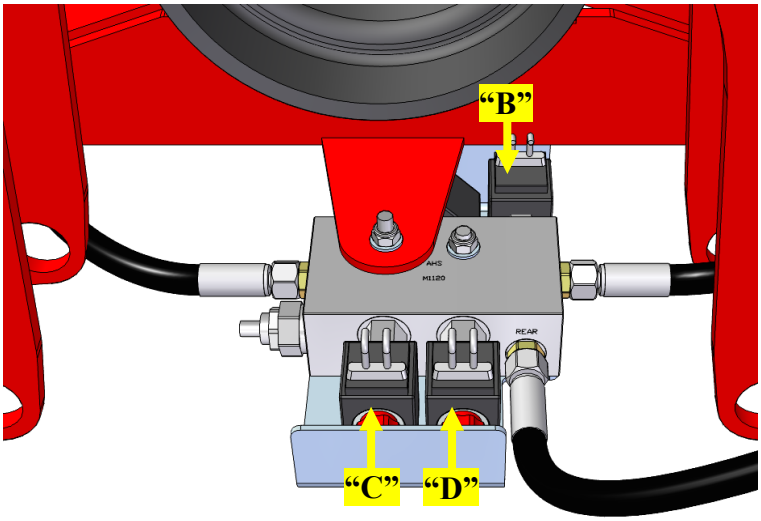
Note:
The small tags on each side of the Plugs may need to be trimmed off with a sharp blade to fit through the hole in the Lift Frame.



Identify the two Cables labelled **"C"** attached to the Command Module.

Run these Cables along the same path as the Left-Hand Proximity Sensor Cable.

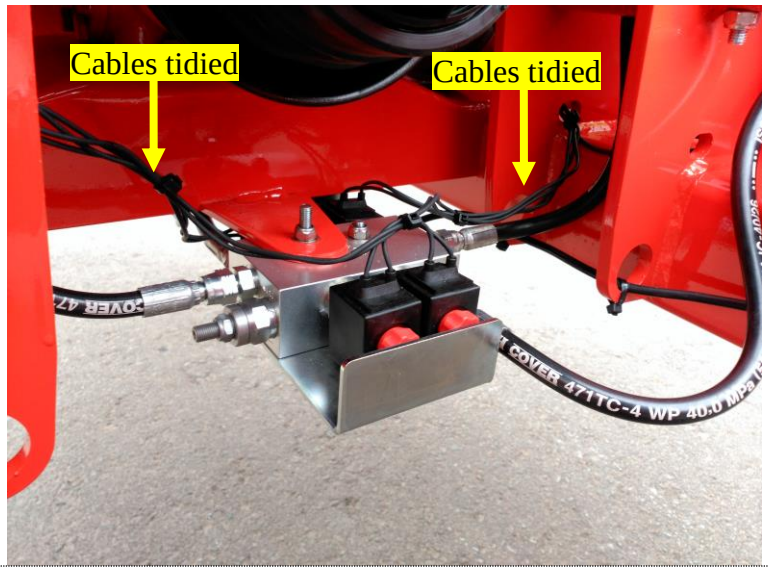
Note:
The small tags on each side of the Plugs may need to be trimmed off with a sharp blade to fit through the hole in the Lift Frame.



Plug the four Cables (**B, C** and **D**) into their respective Plugs present on the Hydraulic Valve Bank.

Each of the Valve Bank Plugs is labelled.

IMPORTANT:
Ensure these are plugged in correctly!



Tidy away the Hydraulic Valve Bank cables as shown.

Secure using Cable Ties.

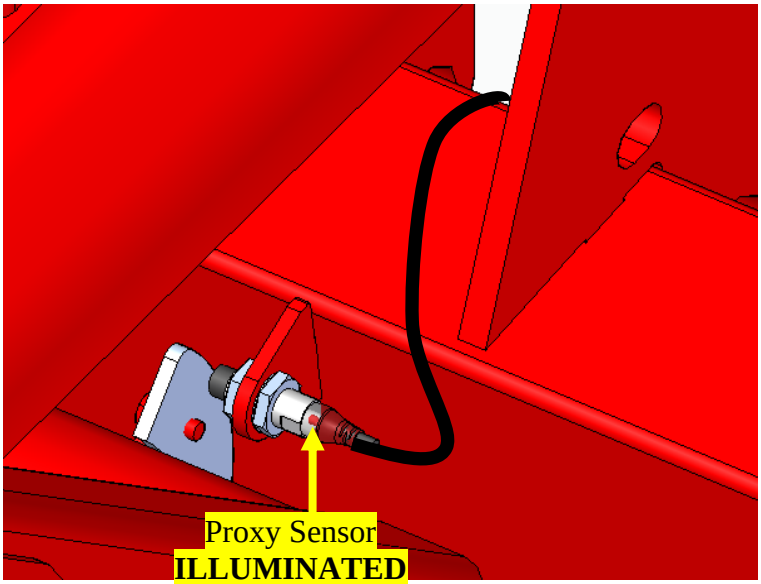
Once secured, trim the tails of the Cable Ties.

At this stage, the QuikLIFT system is ready to be tested to ensure **ALL** functions work as intended.

Ensure that your Supervisor is present!

Plug a QuikLIFT Switch Box **(505-000-009)** into the Command Cable.

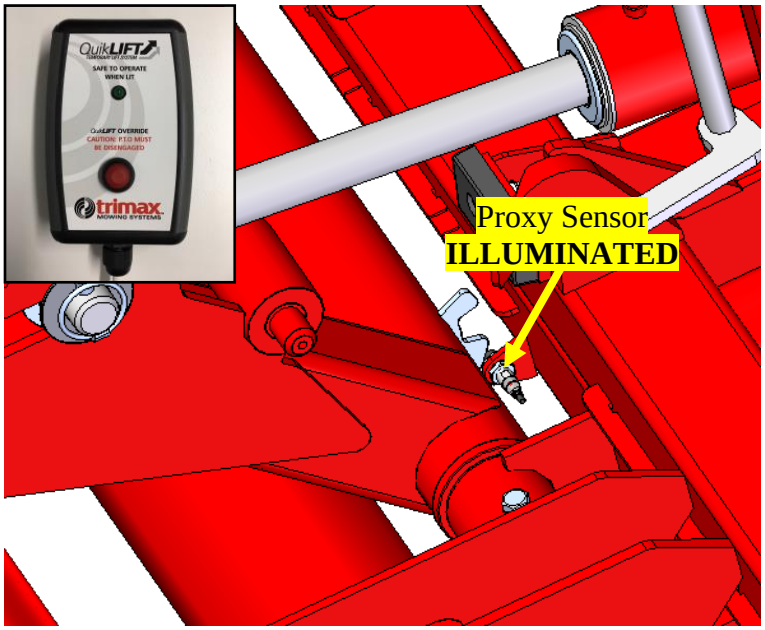
Connect the Main Power Cable a 12v power supply.



Check the Rear, Left and Right-Hand Proximity Sensors.

One shown.

IMPORTANT:
As the Decks are in the **LOWERED** position **BOTH** side Sensors should be triggered by the Cams attached to the Outrigger Arms. The rear Sensor should not be triggered. This will only be triggered when the QuikLIFT is in the activated position.



Check the Rear Proximity Sensor.

Pressurise the hydraulics, the mower will raise to the QuikLIFT position.

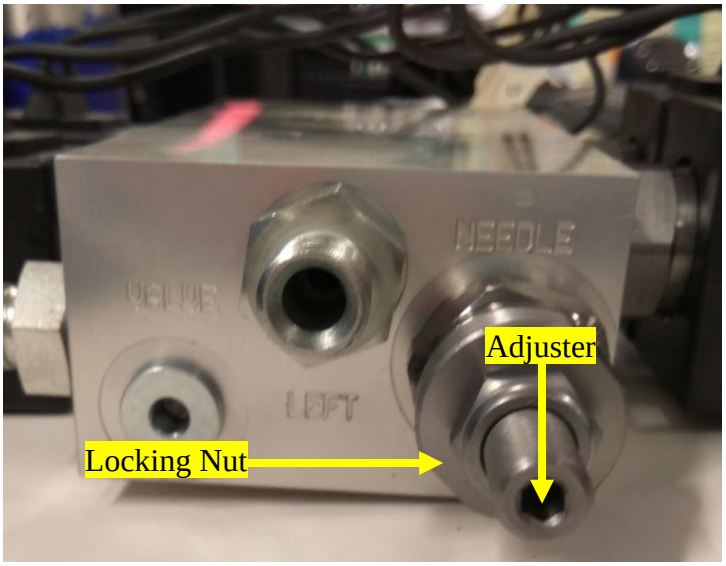
Check that the rear Proximity Sensor has been triggered.

Press the button on the QuikLIFT Switch unit to lower back to the ground. See inset.

If **ALL** the above functions work as described, disconnect the 12v power supply continue this procedure.

IMPORTANT:
If they **DO NOT** function as described, see your Supervisor **IMMEDIATELY!**

Trouble Shooting will be required and should only be carried out by an experienced operator!

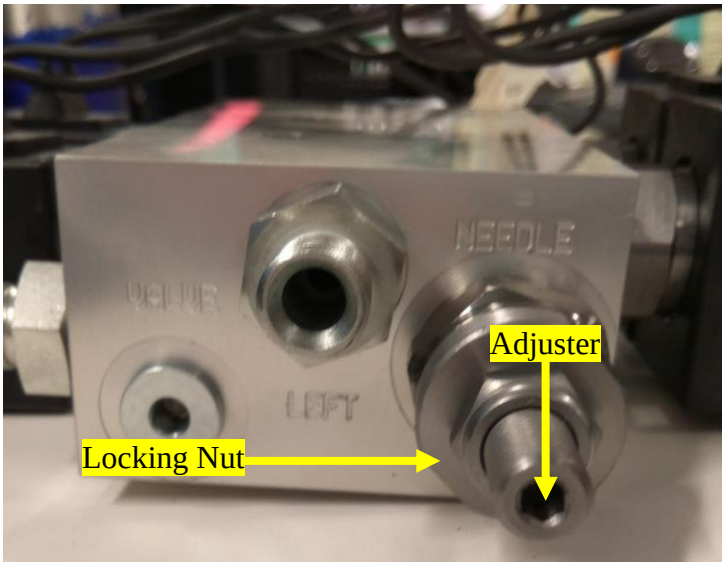


IMPORTANT:

To adjust ascent rate:

- Use a 4mm Allen Key to hold the Adjuster stationary.
- Back of the Locking Nut on the Valve Bank.
- Use 4mm Allen Key to adjust the ascent rate in **SMALL** increments.
- Clockwise to **SLOW DOWN** ascent.
- Counter-Clockwise to **SPEED UP** ascent.
- Raise and lower Decks until the desired time is achieved.

IF YOU ARE UNSURE, SEE YOUR SUPERVISOR!



Once adjusted, use a 4mm Allen Key to hold the Adjuster stationary.

Tighten the Locking Nut.

IMPORTANT:

Final adjustments to ascent rate will need to be made once the Pegasus is installed onto a Tractor!