

Installation Guide





Before you start

Thank you for choosing the PT-Actuator. This manual provides step-by-step instructions for the proper installation of your system. Please read these instructions carefully before beginning the installation process. Improper installation can lead to damage to the actuator or system, and may void your warranty.

Safety Precautions:

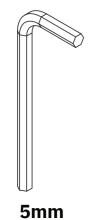
Power Off: Always disconnect power to the system before installing or servicing the actuators.

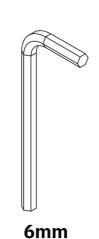
Proper Tools: Use only the correct tools for the installation process.

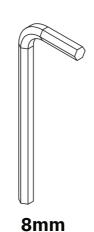
Handling: Handle the actuators with care. Avoid dropping or subjecting them to excessive force.

Wiring: Ensure all wiring connections are secure.

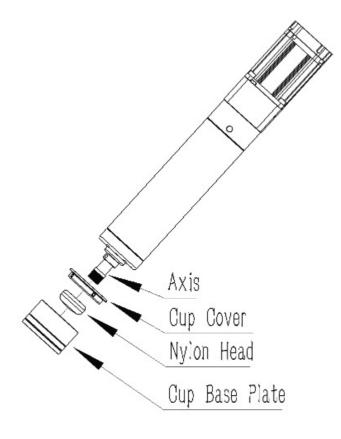
Tools needed:







CUP AND ACTUATOR ASSEMBLY



Slip the Cup Cover over the Axis and then screw on the Nylon Head to the end of the

Clip the Cup Base Plate and Cup Cover together.

The Cup Cover and Cup Bade Plate are press fit and do not need to be fixed with bolts



U-SHAPED BRACKET AND ACTUATOR ASSEMBLY

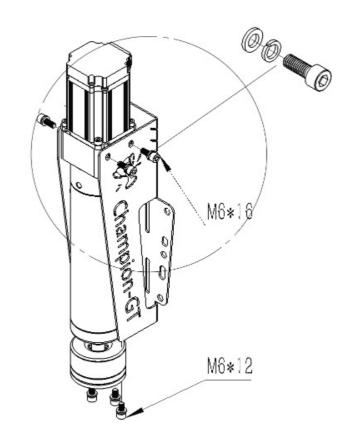
SECURELY FIX THE U-SHAPED BRACKET & ACTUATOR



Align the two M6 threaded holes on each side of the Actuator with the holes in either side of the U-Shaped Bracket.

Align the three M6 threaded holes on the bottom of the Actuator with the holes in lower portion of the U-Shaped Bracket

The Oil Filter should face outward as depicted, to facilitate wiring and maintenance



Two M6x16mm are installed through each side of the U-Shaped Bracket into the Actuator.

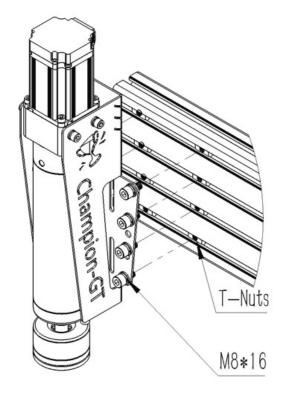
Three M6x12mm are installed through the bottom of the U-Shaped Bracket into the Actuator.

Loosely fit all bolts to ensure proper alignment before fully tightening each bolt in turn





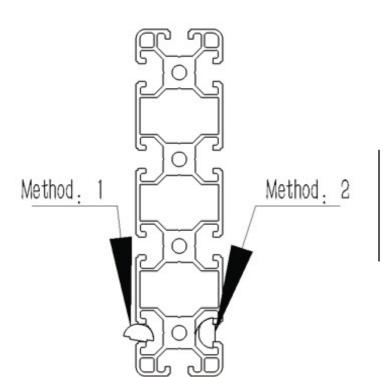
Fasten the Actuator Kit to 40x160 Aluminium profile



Install the eight T-Nuts into the profile slots

Align the T-Nuts at the appropriate spacing

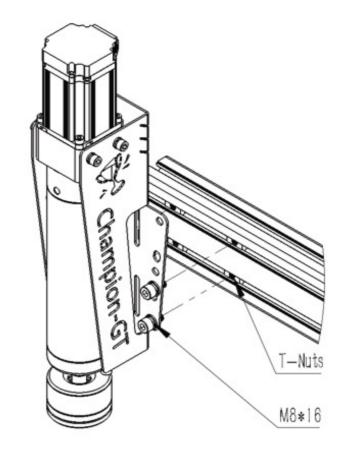
Fix eight M8x16mm bolts to the T-Nuts securing the U-Bracket and Actuator to the side of the profile.



There are two ways to fix T-Nuts to Aluminium

- 1. Squeeze and rotate the T-Nut in from the side of the profile;
- 2. Slide the T-Nut in from the end of the

FASTEN THE ACTUATOR KIT TO 40X80 ALUMINIUM PROFILE



Install the four T-Nuts into the profile slots

Align the T-Nuts at the appropriate spacing

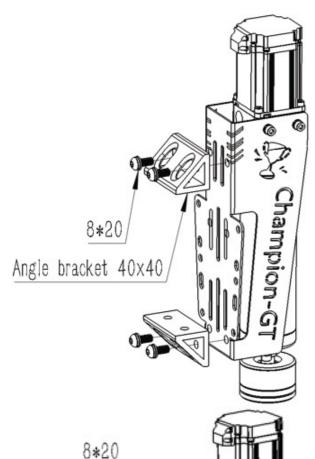
Fix four M8x16mm bolts to the T-Nuts securing the U-Bracket and Actuator to the side of the profile.







Fasten the Actuator Kit to 40x160 Aluminium profile (with angle brackets)



The first step is to pass four M8x20mm round head bolts through two 40X40 angel brackets secure them with the U-Shaped Bracket

Loosely fit all bolts to ensure proper alignment before fully tightening each bolt in turn

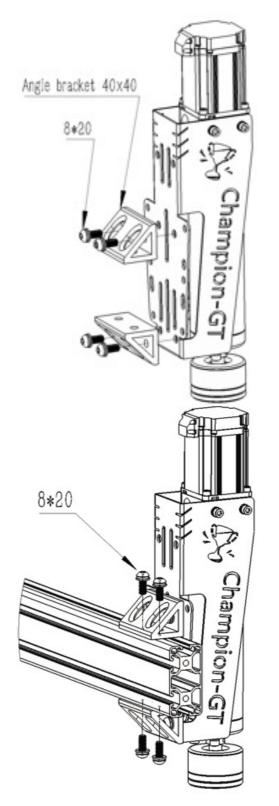


Align the T-Nuts at the appropriate spacing

Fix four 8x20mm round head bolts to the T-Nuts securing the U-Bracket and Actuator to the profile

Tighten all bolts firmly

Fasten the Actuator Kit to 40x80 Aluminium profile (with angle brackets)



The first step is to pass four M8x20mm round head bolts through two 40X40 angel brackets secure them with the U-Shaped Bracket

Loosely fit all bolts to ensure proper alignment before fully tightening each bolt in turn

Install the four T-Nuts into the profile slots

Align the T-Nuts at the appropriate spacing

Fix four 8x20mm round head bolts to the T-Nuts securing the U-Bracket and Actuator to the profile

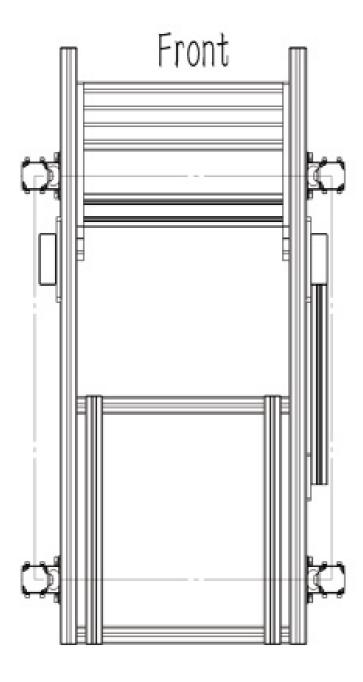
Tighten all bolts firmly





REPEAT THE STEPS TO INSTALL THE 4 ACTUATORS ON BOTH SIDES

ROUTING OF POWER AND ENCODING LINES

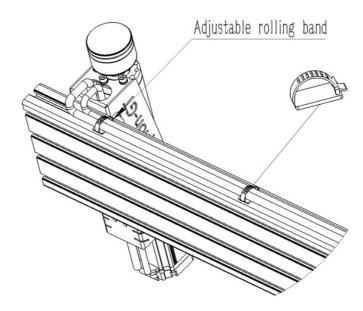


It is recommended that the rear actuators are situated as far back as possible, and the front actuators are at a distance not less than 950mm to the front of the rig.

All 4 actuators should be installed at the same height.

You may need to reposition the uprights if they interfere with the actuators, alternatively adjust the spacing to avoid interferencé.

If the rig is not Aluminium Profile, Please enquire about bespoke brackets



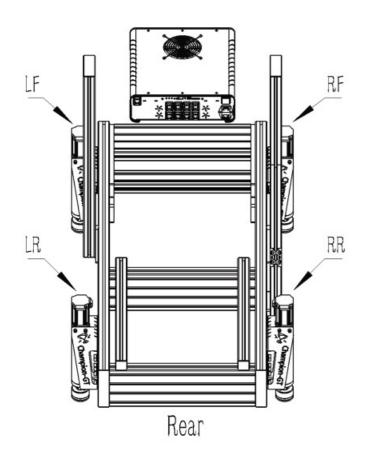
Install the self-adhesive adjustable band to the bottom of the Profile on both sides of the rig. Strap the power and encoder lines tightly on both sides of the rig





INSTALLATION OF ELECTRIC CONTROL BOX (AT THE FRONT)

BUILT-IN INSTALLATION OF ELECTRIC CONTROL BOX (AT THE REAR)



The layout of the cables is as follows:

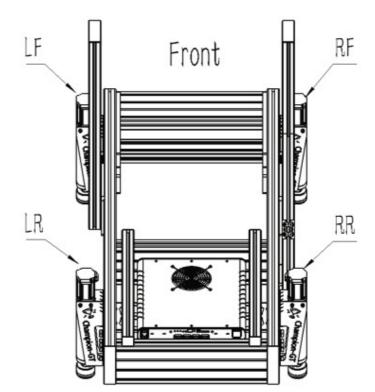
- Left Rear ID1 Left Front ID2
- Right Front ID3 Right Rear ID4

The cables are dived into two groups:

- Front actuators 1m longRear actuators 2m long

Use the correct length cable for each

- ID1 2mID2 1mID3 1m
- ID4 2m



The layout of the cables is as follows:

- Left Rear ID1Left Front ID2Right Front ID3Right Rear ID4

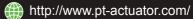
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- Front actuators 2m longRear actuators 1m long

Use the correct length cable for each actuator:

- ID1 1mID2 2mID3 2mID4 1m







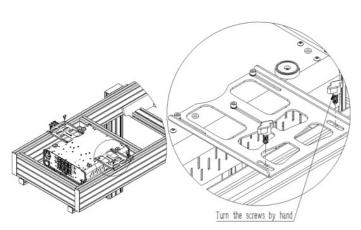
ELECTRIC CONTROL BOX INSTALLATION (AT THE REAR)

M4*8

After turning the control box onto its lid, use three M4x8mm bolts to secure each brackets to the base

Possition the brackets with the appropriate spacing for your rig before tightening

These brackets are suitable for rig with a width of 500mm - 600mm



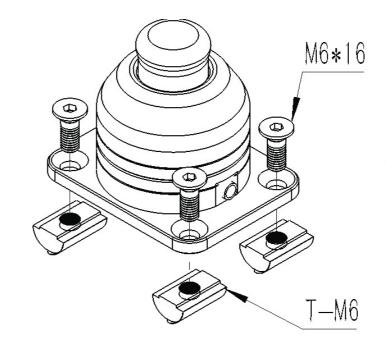
The control box should be installed underneath the rig.

Install two T-Nuts into the profile slots on each side

Align the T-Nuts at the appropriate spacing

Fix four hand screws to the T-Nuts securing the brackets and control box to the underside of the profile





Install four T-Nuts into the profile slots

Align the T-Nuts at the appropriate spacing

Fix four M6x16mm bolts to the T-Nuts securing the emergency stop to the underside of the profile

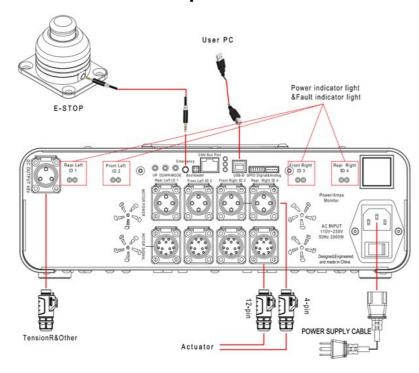
The installation hole distance is 40mm, suitable for a variety of profiles







Electric control box panel connection method











Download SimHub:

Go to the official SimHub website: https://simhubdash.com Click the "Download SimHub" button. This will download a zipped file to your computer.

Extract the Files:

Locate the downloaded zip file and extract its contents to a folder of your choice.

Run the Installer:

Inside the extracted folder, find the executable file (usually named "SimHub.exe") and double-click it to run the installer.

Follow the on-screen instructions to complete the installation process.

Install Device Drivers (if needed):

If you plan to use external displays or devices with SimHub, you'll likely need to install the necessary drivers.

SimHub provides a "Device Driver Installation" section in its resources menu to help you find the correct drivers for your devices.

Launch SimHub:

Once the installation is complete, you can launch SimHub from your start menu or the installation folder.

Configure SimHub:

Upon launching SimHub for the first time, you'll be greeted with a list of supported racing simulators.

Select the simulators you have installed on your computer.

Explore the SimHub interface to familiarise yourself with its features and settings.

Get a License (Optional):

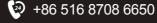
SimHub is free to use, but you can choose to donate to support its development and get

The licensing process is straightforward and can be done through the SimHub website.

SimHub Configuration

TBC









If you still have some questions regarding assembly of this product or about the manual itself, please refer to our support department. They can be reached at

support@pt-actuator.com





