

## Roadmachine

Integrated Cockpit Assembly

ROADMACH

# Roadmachine

Integrated Cockpit (IC) Instruction Manual

The new Roadmachine 01 represents the pinnacle of functional integration. By patiently following the guidelines below, the assembly process will lead to a functioning equipment with a high-performance, Swiss engineered aesthetic.

#### Contents

1.	General Assembly Notes and Warnings	3
2.	Tools and Materials	3
3.	Stem Parts	4
4.	Frame Assembly	5
4.1	Brake Mounting	6
4.2	Cable Routing	7/8
4.3	Preparing and Installing Fork	9/10
4.4	Installing headset and ICS01 Stem	11
4.5	Finishing assembly	11



## **1. General Assembly Notes** and Warnings

Due to the high level of integration of the Roadmachine 01 Integrated Cockpit, proper assembly requires a high degree of mechanical skill and specialized tools. It is critical that the assembly and maintenance is performed by a qualified professional.

In order to successfully assemble the Roadmachine 01 and the Integrated Cockpit it is important to follow the order of operations outlined in this guide. Failure to follow the outlined procedure can result in an assembly process that is more difficult than necessary and an end product that performs less than ideal.

**WARNING:** The Roadmachine 01 Integrated Cockpit (fork, stem, headset and stack spacers) are all proprietary components that cannot be substituted with non-specified components. Substitution of any of these components can compromise the integrity of the entire system and should under no circumstances be substituted. Failure to follow this warning can result in serious injury or death.

### 2. Tools and Materials

Allen keys: 3, 4, 5mm Open-end wrench: 7, 8mm Brand-specific hydraulic tools High quality grease Carbon paste Torque wrench Steerer tube cutting guide Carbon fiber cutting blade PF-86 BB Installation tool



# 3. Stem Parts Integrated Cockpit Stem (ICS01)

ICS01 Stem (90/100/110/120/130)	
Stem Faceplate	2
Cable guide	3
Stack spacers	4
IC Fork inserts	5
Cable cover	6
Cable clamp	7
Di2 Junction A mount (optional)	8





#### 4.1 Brake Mounting

The new Roadmachine 01/02 proprietary brake mounting hardware comes with the ability to accommodate 160mm front rotors and 140 or 160mm rear rotors. Qualified service providers can position the adapter to create seamless integration and optimal function for either rotor size.

#### **Front brake**



160 mm

#### Rear brake



140 mm



160 mm

**Note:** Roadmachine X will utilize Shimano flatmount hardware front and rear – reference the Shimano service guide for proper assembly.

#### 4.2 Cable Routing 4.2.1 Brakes

Start the housing routing at the caliper and pass to the front.

The rear brake hydraulic housing will pass UNDER the bottom bracket.

Install the provided foam sleeve on the rear brake housing in the downtube.

It is recommended to assemble the caliper-end hydraulic system (connector insert, olive, and inserting the threaded connector bolt) – this will help hold the hose in place during future assembly steps.



4.2 Cable Routing 4.2.2 Drivetrain

DTi frame fittings vary between frame platform (01/02) and drivetrain options (mechanical / electronic). • Install proper DTi frame fittings for your frame and drivetrain

#### Roadmachine 01, 02 electronic





Downtube covers

Rear derailleur cable exit



BB cover

In the case of electronic systems, we strongly recommend assembling the system and checking all connections before routing cables through the frame.

#### Roadmachine 01, 02 mechanical



Drivetrain housing exit



Rear derailleur cable stop



BB cable guide



#### **4.3 Preparing and Installing Fork 4.3.1 Measuring fork length**

• Install the headset components, cable guide, stem, and steerer inserts.



- Gently compress the system together and tighten the stem steerer tube clamp bolt gently.
- △ Warning: without IC Fork steerer inserts, tightening the stem steerer calmp bolt can compromise the integrity of the steerer tube – leading to serious injury.

#### Verify the handlebar position!!

- Using a felt-tipped marker, make a mark on the steerer tube at the top of the stem.
- After verifying handlebar position, and marking stem height, uninstall the fork and headset from the frame.



Install steerer spacers before tightening stem clamp!



 Mark steerer at top of stem



**4.3 Preparing and Installing Fork 4.3.2 Cut fork** 

• Use the mark on the steerer tube to assign a proper cutting location.

#### Cut the steerer tube 3mm below the mark!



#### 4.3.3 Install self-tapping compression nut

- The Roadmachine 01 IC Fork comes with an internal channel which receives a self-tapping compression nut.
- Install the self-tapping compression nut, making certain it remains aligned with the steerer.
- Tighten until the top of the compression nut is flush with the top of the fork.





#### 4.3.4 Route brake housing

- Route the housing through the internal guide, starting at the axle dropout and working towards the steerer tube.
- It is recommended to assemble the caliper-end of the hydraulic system (connector insert, olive, and inserting the threaded connector bolt) – this will help hold the hose in place during future assembly steps.





#### 4.4 Installing headset and ICS Stem

- Install the fork and headset. using grease on all contact surfaces.
- Arrange and align cable routing
- brake lines can be positioned in the opposite position (Left - Rear, Right - Front).
- Install headset top cone (high or low stack) and spacers.
- Install stem cable guide and gently position cables downward.
- Install ICS Stem and steerer tube inserts.
- Install top cap and compression bolt.
- $\triangle$  3Nm max torque
- Install stem steerer clamp bolt grease required.

∧ 7Nm max torque

- Install stem cable clamp.
- Install stem cable cover.

**4.5 Finishing Assembly** 

• Install optional Junction A mounting unit.



Route the front brake housing to the non-drive side



Install bearings and compression ring - cables will sit securely on flat sides of steerer tube



Install top cone, spacers and cable guide - gently fold cable downward



Install stem and steerer inserts

**3Nm max** torque!

7Nm max torque! (grease required)

Install stem steerer clamp bolt - grease required!



Install Di2 junction box (optional)



Install cable clamp and cable cover & Di2 junction box mount (optional)

Install top cap



Install faceplate and faceplate cover - make sure the top faceplate 'puzzle' clamp is securely engaged



• Assemble and adjust brake and drivetrain

equipment per manufacturer's instructions.

