

MOZ ROLLER

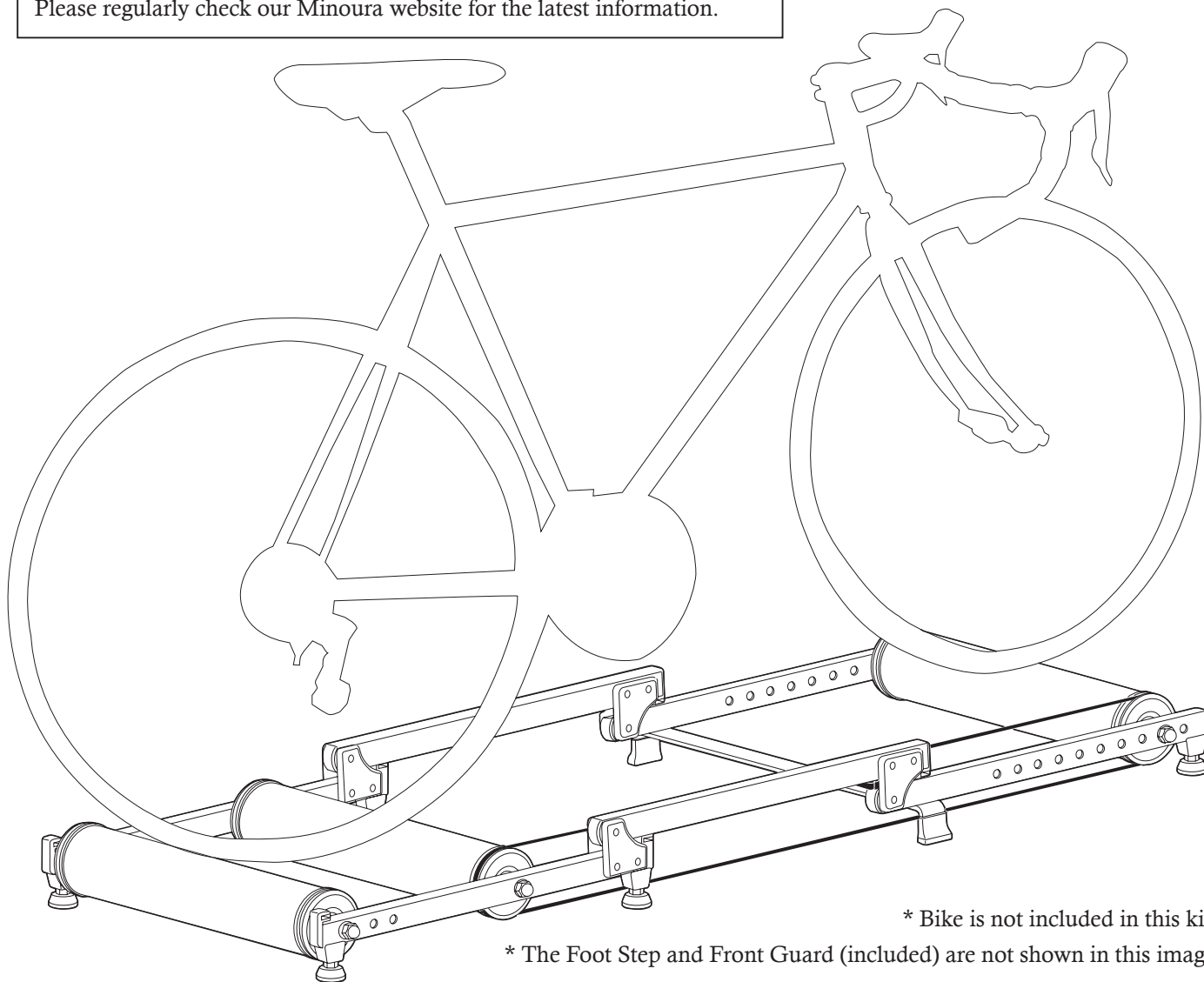
[Read this instructions manual carefully before use]

Warranty Period : 1 year

Minoura offers a **1-year limited warranty** for this product from the date of purchase. Natural wear and issues caused by misuse or unauthorized modification will NOT be covered under this warranty.

For more details, please refer to the enclosed **Minoura Limited Warranty Policy** card included in the kit.

Please regularly check our Minoura website for the latest information.



* Bike is not included in this kit.

* The Foot Step and Front Guard (included) are not shown in this image.

Contact

If you have questions or need assistance, please first contact the shop where you purchased this product or the distributor in your country. You can find the distributor in your country on our website. If your shop or distributor is unable to assist you, feel free to contact us directly at:

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Made in Japan


IMPORTANT NOTES


- **Read this instruction manual carefully and keep them for future reference.**
- **This product requires assembly. Mind each caution below.**
- **This product is made to be assembled one way only. Any modification or change from the supplied instructions will void the warranty.**
- **A 1-year warranty is provided for this product. Please refer to the enclosed warranty card for more details.**


 For standard 2-wheel bicycle with a wheelbase between 775mm and 1,090mm only (including BMX). This product cannot be used by any other bikes such as those outside of the specified size range, tricycle, or any type of e-bike. We do not recommend using this product with a recumbent bike, as its unique riding position makes it difficult to maintain proper balance. If you choose to use a recumbent, you do so at your own risk.


 Rollers do not provide any support. You must learn to maintain your balance while on the rollers. Place the rollers on a flat, level surface floor and near a handrail or something sturdy you can hold onto until you are able to balance on the rollers.


 It is dangerous to remove your hands from handlebars while riding on rollers. Keep both hands gently on the handlebars at all times (do not grip too tightly). Avoid look down, and focus 2 – 3 meters ahead for safe riding.


 Adjust the front roller to the correct position based on your bike's wheelbase. If the front roller is positioned too far forward, the handling on the front end will become unstable, increase the risk of falling. If the bike is too far back, overall stability will decrease.

 Set the air pressure 10% higher than usual. If the pressure is too low, squealing will occur. If the tire is wet, it will slip, which is dangerous. Always wipe any moisture away before use.


 Ensure you are positioned several inches off the floor. When using rollers, you will not be able to reach the floor as easily as you would without them. While supporting yourself, find the best spot to place your foot down when needed. If you are wearing cleats, use extreme caution not to slip on the frame or the floor. An optional Foot Step is available for added safety.

 Choose the correct size of roller belt that matches your bike's wheelbase. An incorrect size will not function properly. Set the Roller Belt securely in the grooves on the roller drum end caps. You cannot ride on the rollers without this belt. Check the belt before every use. If the belt becomes worn or frayed, replace it immediately.

 Before each use, ensure all bolts and nuts are properly tightened. Do not adjust the bolts on the end of the rollers. This could cause serious damage to the rollers. Avoid over-tightening the Dome Nut. This will cause the inner metal collar to deform, and will damage the flat washer, potentially resulting in serious injury.

 It is dangerous to touch the spinning roller or belt. Keep small children and pets away from the rollers while workout. Additionally, keep any sharp or fragile items away from the rollers to prevent unexpected accidents.

 Be careful not to pinch your fingers when folding down the frame. Do not stand on the roller drums.

 If you choose not to install the optional Mag resistance unit on the frame, be sure to remove the V-belt that drives the Mag unit to avoid any risk of an accident.



The belt will stretch over time. To help keeping its shape, we recommend folding the rollers frame down when not in use. The belt is made of urethane material, which should be flexible enough, however, it may become longer and might not fit your roller position setting. Replace the belt if it becomes too long.



Do NOT apply brakes when on the rollers. This could cause serious injury. To stop, simply cease pedaling and wait for the bike to come to a complete stop.



About Foot Adjuster

The **Foot Adjuster** is used to change the height and angle of the rollers. If the drums are not parallel when you place the rollers on the floor, extend the adjusters to ensure each roller is leveled. Be sure to tighten the lock nut once you have finished adjusting.



About Bridge Frame

If the **Roller Belt** scratches the **Bridge Frame** while in use, it will be worn out quickly. Ensure that you insert the **Bridge Frame** INTO the belt loop during assembling.



When Installing Front Guard

The **Front Guard** is installed between the front roller and the frame. Remove the inner washer that sits between roller drum and the frame. You will use the **Front Guard** itself as a spacer.

About Anti-Slip Rubber

Put the supplied rubber sheet on top of the **Mid Frame** on the side where you typically support yourself with your leg. When using the optional **Foot Step**, always position it on the opposite side.

About The Hole for Smaller Wheels

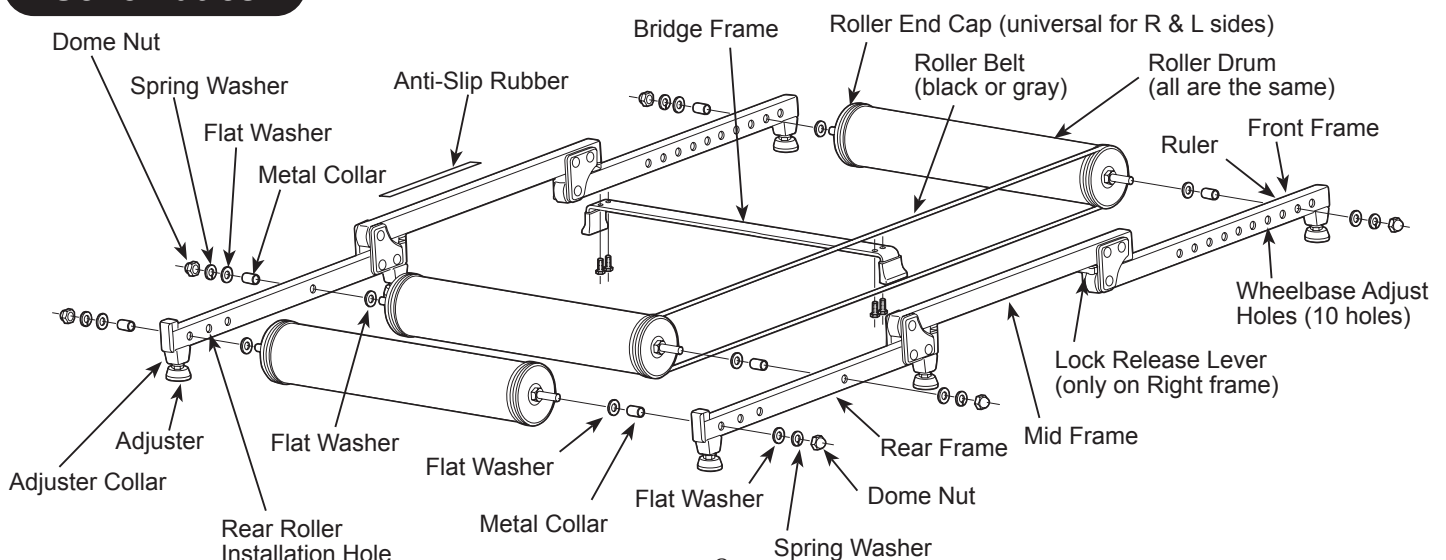
The MOZ-Roller-G2 is compatible with smaller wheels, such as 20" BMX or mini-velo. There are three holes on the **Rear Frame** for the **Rear Roller**; the rear hole is for the standard 700c / 27" wheels, the center hole is for 24" or 650c, and the front hole is for smaller 20" wheels. The numbers on the **Wheelbase Ruler** indicate that the black texts on the upper level correspond to the 700c size wheel, while the gray texts in the lower level correspond to the 20" size wheel.

The forwarder hole can also be used for micro-adjusting the wheelbase size setting. The hole pitch is 40mm, meaning the rear wheel can be set 20mm ahead (half of hole pitch) when using the front hole.

For example, if your bike's wheelbase is 980mm and you set the **Front Roller** at the "970" position, it will be too short and may become unstable, but the "1000" position will be too far.

In this case, you should set the **Front Roller** at "1000" position hole and use one step forwarder in the hole for the **Rear Roller**, achieving the optimal size for 980mm ($1000 - 20 = 980$).

Schematics



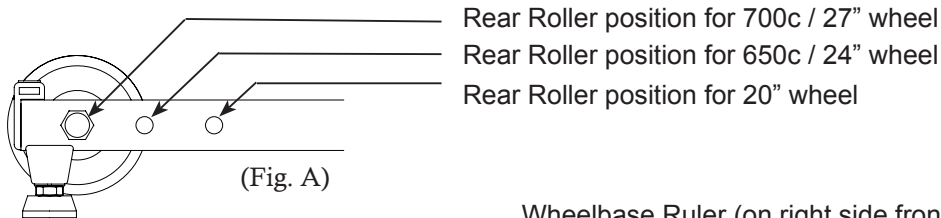
Choose the Front & Rear Roller Position

MOZ-Roller-G2 is a product that you need to assemble yourself before use.

First, choose the positions for both the rear and front rollers.

Before assembling, select the appropriate Roller Belt; either the larger black one or smaller gray one that fits your bike size.

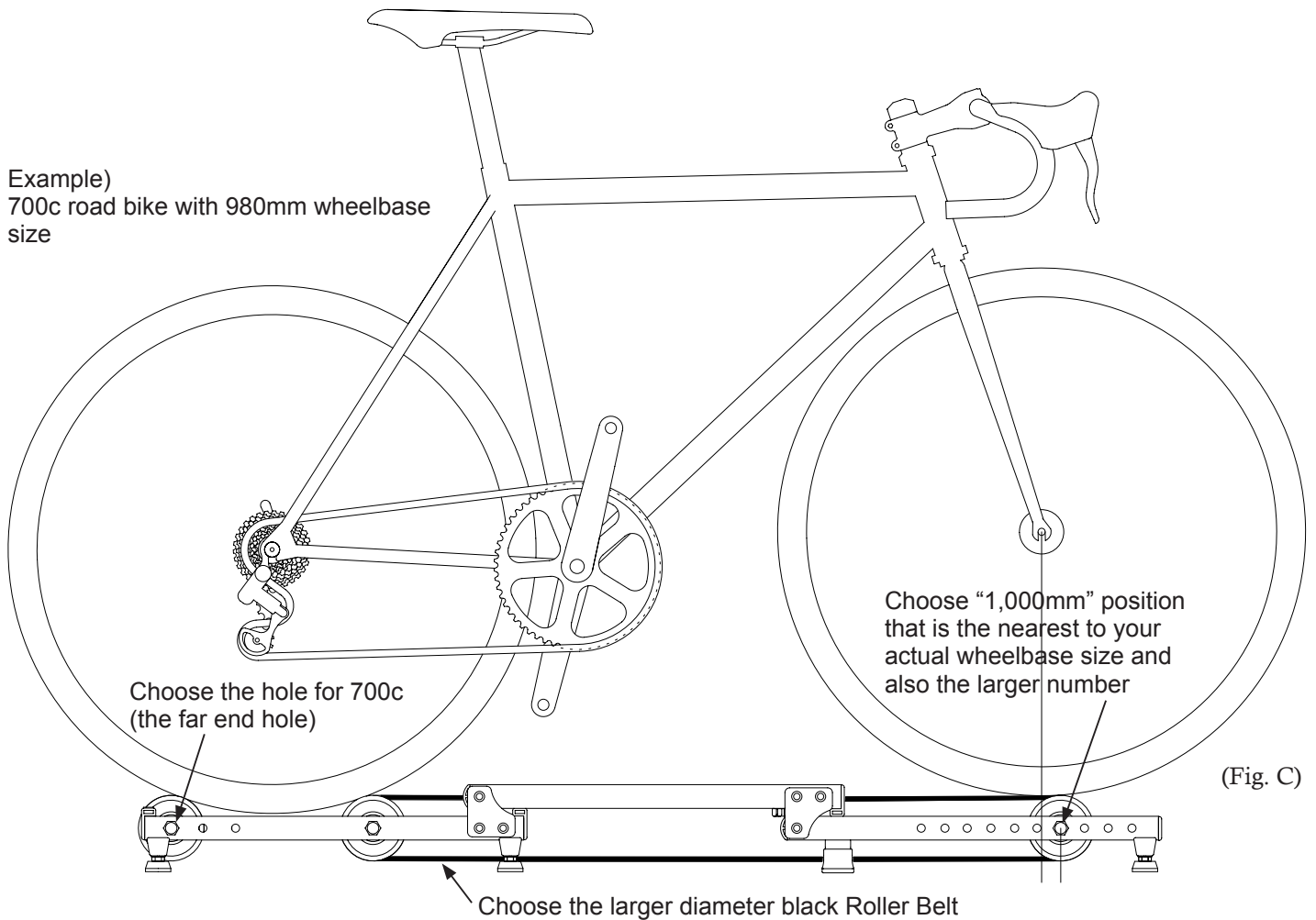
On MOZ-Roller-G2, you can use the bike between **20" & 775mm wheelbase** and **700c & 1,090mm wheelbase**.



Wheelbase Ruler (on right side front frame)



(Fig. B)



There are 10 holes on each front frame. Choose one of them for your bike.

The Wheelbase Ruler is located on the right side of the front frame. (see Fig. B)

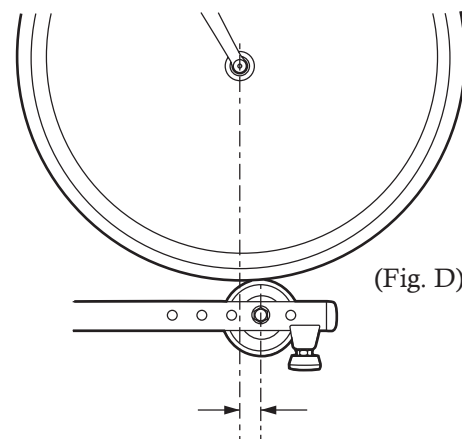
The numbers on the ruler correspond to the wheelbase size. If you already know your bike's wheelbase size, select the hole that matches the actual number or the nearest larger number. This is the hole you should use to the front roller (see Fig. C).

To ensure a safe ride, we recommend setting the Front Roller 10 – 15mm forward of the front wheel axle (see Fig. D).

As your skills improve, this distance should decrease, and the final setting should match the number of your wheelbase, placing the roller just beneath the axle.

The position directly beneath the front wheel axle is only for expert-level riders, as the handling becomes extremely quick.

On the rollers, the front wheel will move sideways very quickly once the roller starts spinning.



(Fig. D)

10 – 15mm (Minimum 0mm. Not negative)



If the front wheel axle is positioned further forward than the roller, the bike will easily come off the rollers in front.

If positioned too far behind, the bike will feel heavy and unpredictable.

TIPS

The hole pitch on the **Front Frame** is 30mm, which can sometimes make it challenging to adjust the front roller position within the recommended 10 – 15mm as suggested above, depending on the actual wheelbase size.

For example, if your wheelbase is 980mm, the 970mm position will be too short and 1,000mm position will be 5 – 10mm further behind the recommendation, which is not advisable.

In this case, you should set the **Rear Roller** to the forwarder hole on the **Rear Frame** to move the bike itself 20mm (half pitch of the holes) forward. This way, you can effectively use the 1,000mm position as it were for a 980mm wheelbase.

The kit includes two different sizes of the Roller Belt; the black belt is the larger one, and the gray belt is the smaller one. Choose the correct size based on your bike's actual wheelbase.

The black numbers on the **Wheelbase Ruler** on the front frame correspond to the black belt, while the gray number correspond to the gray belt.



If you use the black roller belt when you should be using the gray one, it will be too long and loose causing the belt to jam during use. This may lead to issues such as your pedaling power not transferring to the front roller, or the belt may be caught to the roller axle, which is dangerous.

Conversely, if you use the shorter gray roller belt when the longer black one is required, the belt will be over-stretched and will easily break. You will not be able to ride the rollers without a functioning belt.

To replace the broken roller belt (not provided free of charge), please contact the shop where you originally purchased this product or the distributor in your country. Minoura will not be responsible for any issues that arise from the damaged or broken roller belt.

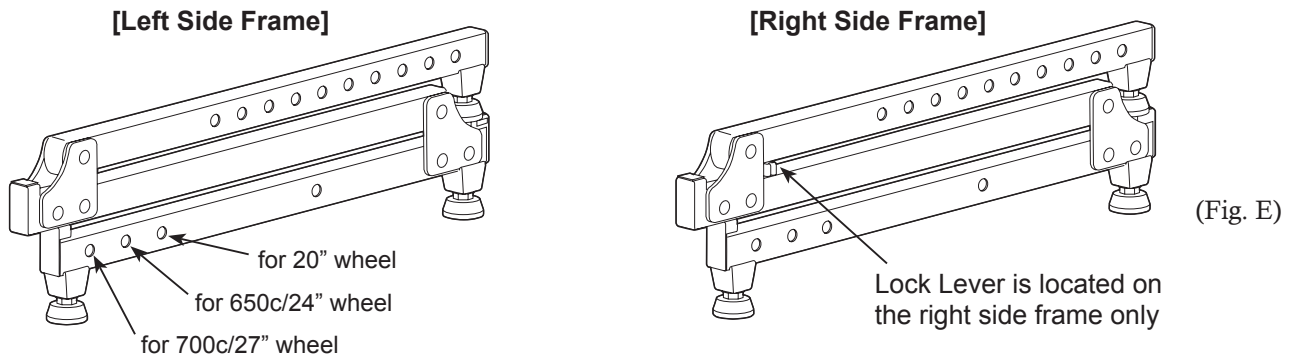
How To Assemble Your MOZ-Roller-G2

Required Tools: 17mm Spanner (x 2), #2 Phillips Screwdriver or 10mm Socket Wrench

- 1 Remove the **Frames** from the package, and identify the correct orientation. The right side frame has the **Lock Release Lever** to prevent unexpected folding, while the other points are identical on both sides (see Fig. E).

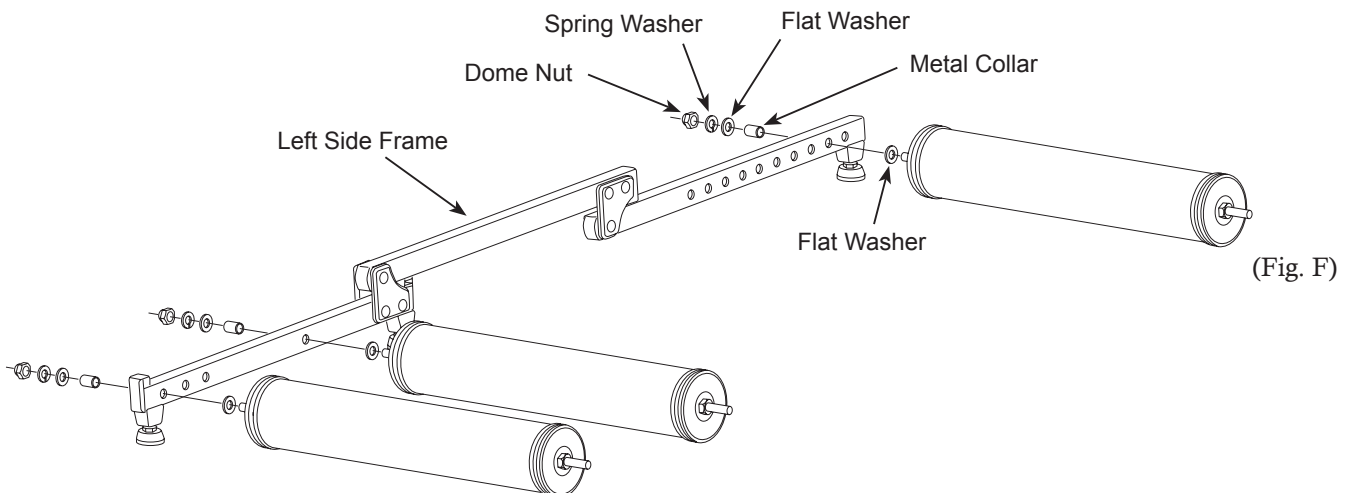


The left side hole on the Front Frame is always larger diameter than the right side hole, regardless of which side you are on. Please do not assume that you have received the wrong part.



- 2 There is no specific direction on the roller drum. It is symmetrical. All three rollers are identical. Put a **Flat Washer** on the left side axle to protect the bearing, then insert it into the smaller hole on the **Left Side Frame** (see Fig. F).

These instructions are based on the assumption that you will NOT be using the **Front Guard**. If you plan to install the **Front Guard**, please refer to the section on page 10.



- 3 Insert the **Metal Collar**, **Flat Washer** and **Spring Washer** from the outside of the frame, then loosely screw on the **Dome Nut**. Repeat this step for the remaining rollers (see Fig. F).



*There is a metal bracket in the **Front Frame** that holds the **Bridge Frame** in position, connecting both side frames. This bracket will not move while secured with bolts, but it will move freely in the frame tubing once the bolts are released. When you install the **Front Roller**, ensure that this bracket is positioned toward the center frame before assembling. Failure to do so may result in the bracket coming off the front roller axle making it impossible to install the **Bridge Frame**.*

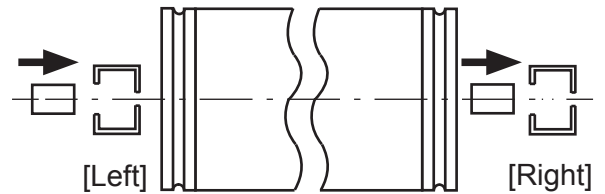


Metal Collar Insertion Direction

The right and left frames are identical, except for the **Lock Release Lever** which means the hole size combination is same on both the right and left frames: **The left side hole is larger, and the right side hole is smaller.**

The **Metal Collar** must be inserted from the **larger left side hole** on either frame (see Fig. G).

If you do not use the collar, the frame will deform due to the torque of the **Dome Nut**. If this occurs, the frame cannot be repaired.



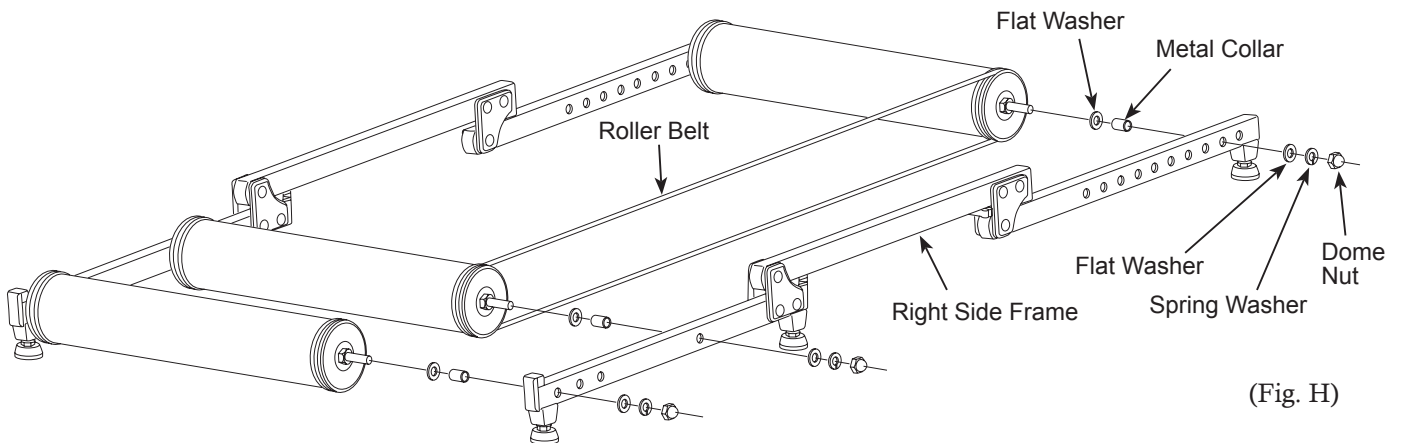
(Fig. G)

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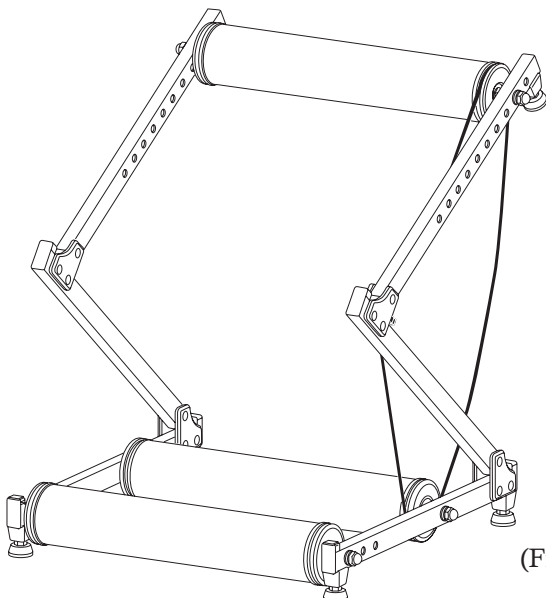
Put the **Roller Belt** on the **Front** and **Mid Rollers**, ensuring that it is not placed on the **Rear Roller** (Fig. H). Next, insert a **Flat Washer** and **Metal Collar** onto the axle, and attach the **Right Side Frame** to all axles. After installation, add a **Flat Washer**, **Spring Washer** and **Dome Nut**, then tighten them temporarily.

During this step, shape the frame into a "Z" to make the belt installation easier (see Fig. I).

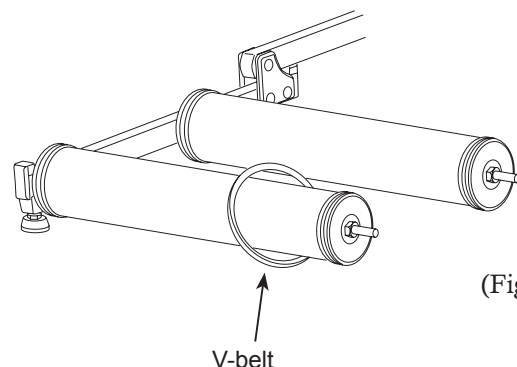
If you plan to install the optional Mag Unit to increase the resistance, put the V-belt on the **Rear Roller**. The belt comes with the Mag unit (see Fig. J). If you do not intend to use the Mag Unit, even temporarily, it is strongly recommended that you remove this belt to prevent jamming of the rollers.



(Fig. H)



(Fig. I)



(Fig. J)

(Refer page 11 for more details about Mag Unit)

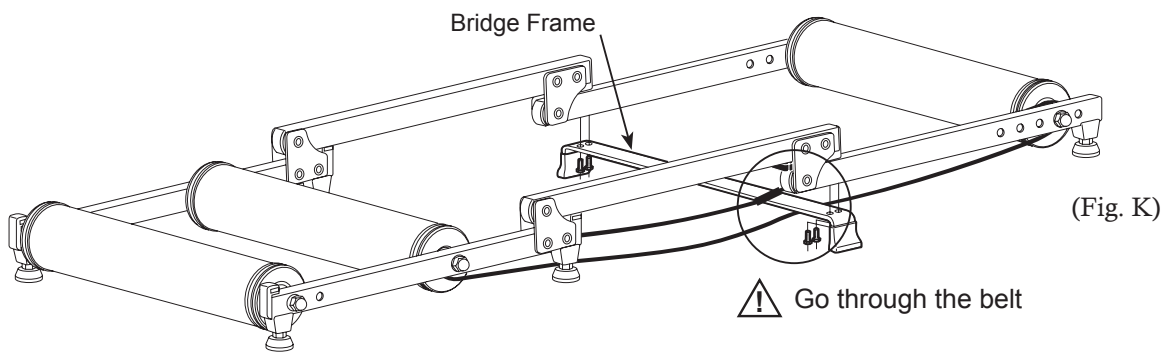
- 5** Install the **Bridge Frame** beneath the **Front Frames** (see Fig. K).
Flipping the body may make this task easier.



First, ensure that the **Bridge Frame** passes through the roller belt loop.
If you do not verify this, the belt will be in constant contact with the frame, leading to premature wear and failure of the belt.

If you are unable to screw the bolt into the threaded hole on the inside bracket, check to see if the bracket is in the correct position. It may be obstructed by the **Front Roller** axle within the frame.
To resolve the issue, remove the **Front Roller**, adjust the bracket's position, and then reinstall the roller.

A Phillips head screwdriver can be used, but we recommend utilizing a 10mm socket wrench for optimal use.



- 6** Tighten the **Dome Nut** using a pair of 17mm wrenches (Recommended Tightening Torque: **8 N.m**) (see Fig. L).

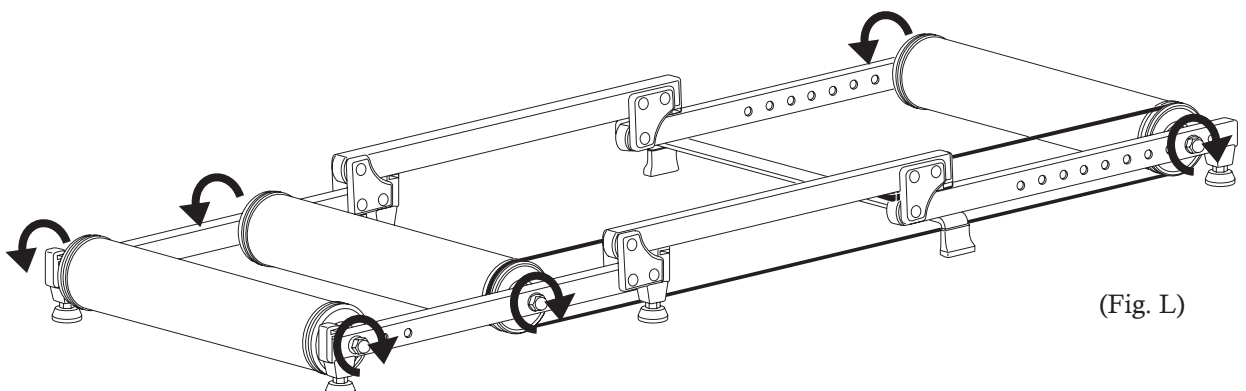


Keep the recommended tightening torque: 8 N.m.
If the **Dome Nut** is overtightened, the alloy **Metal Collar** will deform, making it impossible to remove. Additionally, this could cause the **Flat Washer** to develop sharp edges, posing a risk of injury.



The nut on the roller end cap is precisely adjusted to hold the bearing in the correct position.
Unless you notice the nut has been clearly loosened, do not attempt to loosen or overtighten this nut.

When installing the bracket for the optional **Mag Unit** on the **Rear Roller**, you may need to remove the **Flat Washer** and retain only the **Spring Washer** to tighten the **Dome Nut**, due to the limited axle length (see Fig. P).



Opening/Closing The Frame

How To Open

- 1 While bending the frame in a Z-style, apply the **Roller Belt** to both **Front** and **Mid Rollers**. The belt must be hooked in the groove on the roller end cap (see Fig. M).

On **MOZ-Roller-G2**, the roller drum features a belt groove on both sides. Use the opposite side of the **Foot Step** to avoid jamming issues.

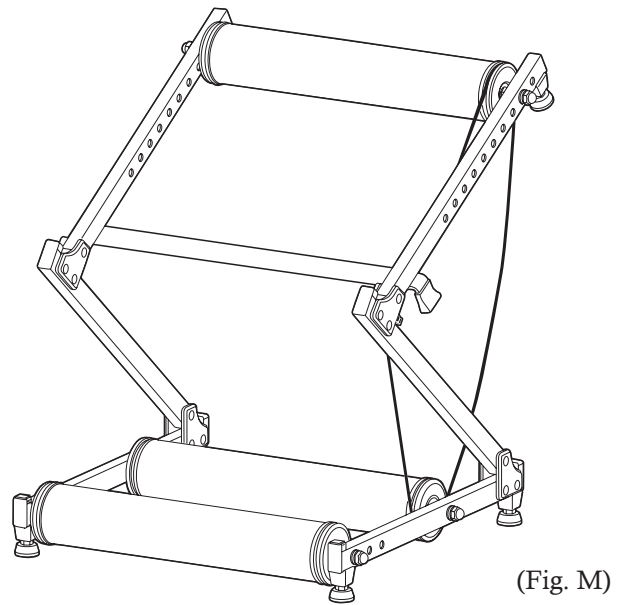
- 2 Extend the **Front Frame** until you hear the **Locking Lever** click into the locked position (see Fig. N). Extend both the **Left Side Frame** and the **Right Side Frame**.

Lock Release Lever

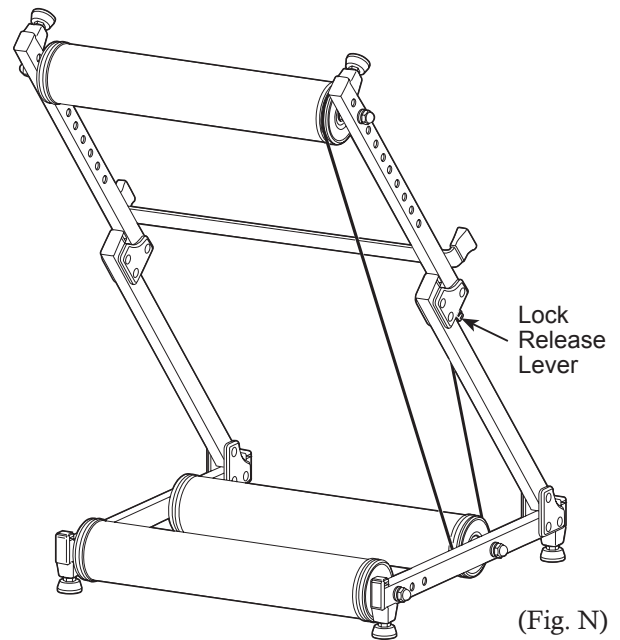
This is provided for your safety to keep the frame from unexpectedly folding.

- 3 Gently lay down on the floor (see Fig. O). The **Roller Belt** is properly tensioned and ready for riding.

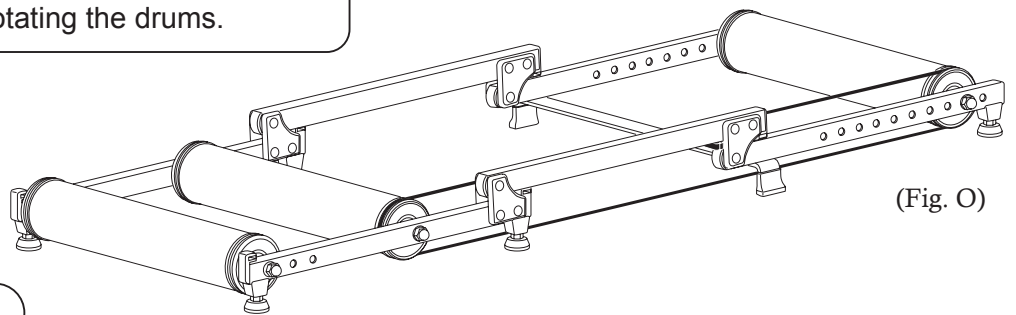
If the **Roller Belt** has come out from the grooves on the roller end cap, push the belt back toward the groove while slowly rotating the drums.



(Fig. M)



(Fig. N)



(Fig. O)

How To Fold Down

To fold down the frame, pull the **Lock Release Lever** and push the **Front Frame** downward.



*Pushing down on the frame without releasing the **Lock Release Lever** will damage the frame.*



Be careful not to pinch your finger when folding/opening the frame.

While storing, tie the **Roller Belt** or hook to the **Foot Adjusters**, do not leave it hanging loosely.

How To Install Front Guard

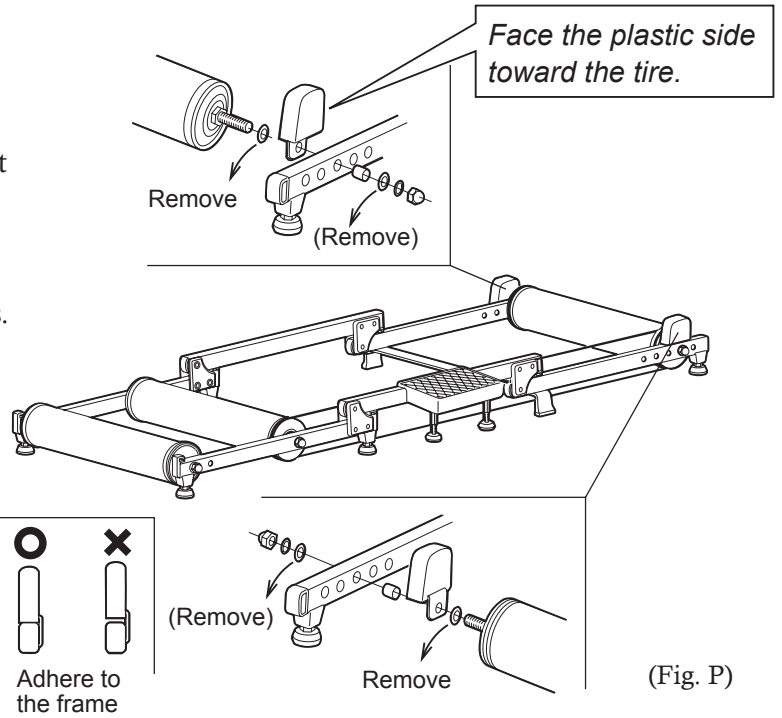
The **Front Guard** is a safety device to push the front wheel back to the center if you lose balance and are at risk of falling off the rollers. It also reduces the speed through the friction created when the front tire comes into contact with the guard.

We recommend using the **Front Guards** for beginners.

The roller axle length is limited, and it may be too short when installing the **Front Guard**.

If this occurs, remove the **Flat Washer** and use the guard itself in place of the flat washer (see Fig. P).

You may need to remove one of the washers on outside frame due to the limited axle length. In this case, remove the **Flat Washer** and retain the **Spring Washer** to ensure a secure hold of the **Dome Nut**.



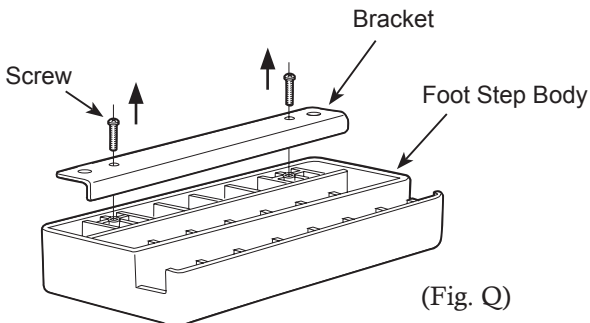
How To Install Foot Step

Required Tool: Phillips Screwdriver, 13mm Open Spanner (not the closed type)

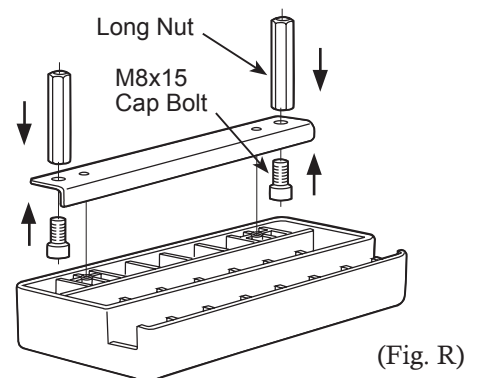
Please note that you will be elevated a few inches off the floor once on the rollers. This makes it difficult to reach the ground. To address this, you need to install the **Foot Step**.

The Foot Step is packed in an unassembled condition. Please follow the steps below for setup.

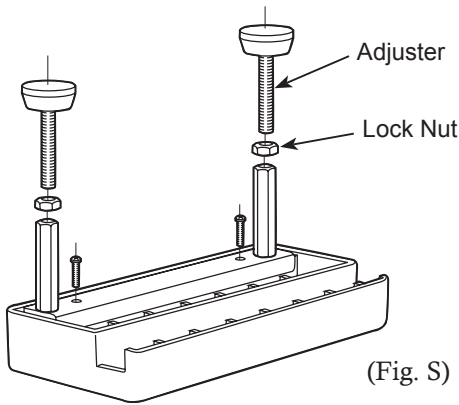
1 Loosen the screws to remove the bracket.



2 Fully screw the M8x15 Bolt to the Bracket from backside, and screw the Long Nut firmly with spanner.

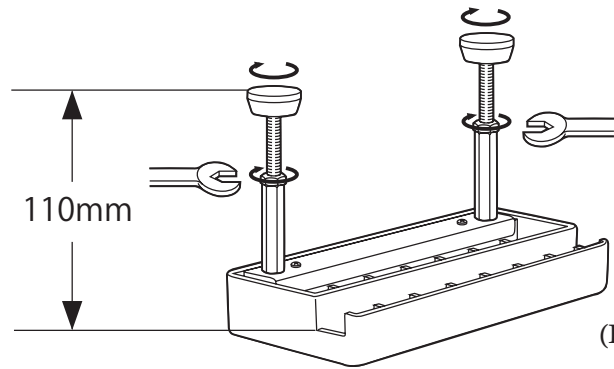


- 3** Tighten the Bracket to the Step Body again.
Put the Lock Nut through the Adjuster, and screw into the Long Nut.



(Fig. S)

- 4** Set the Adjuster length to 110mm (from the groove bottom to the adjuster top).
Tighten the Lock Nut toward the Long Nut with spanner to fix the position.



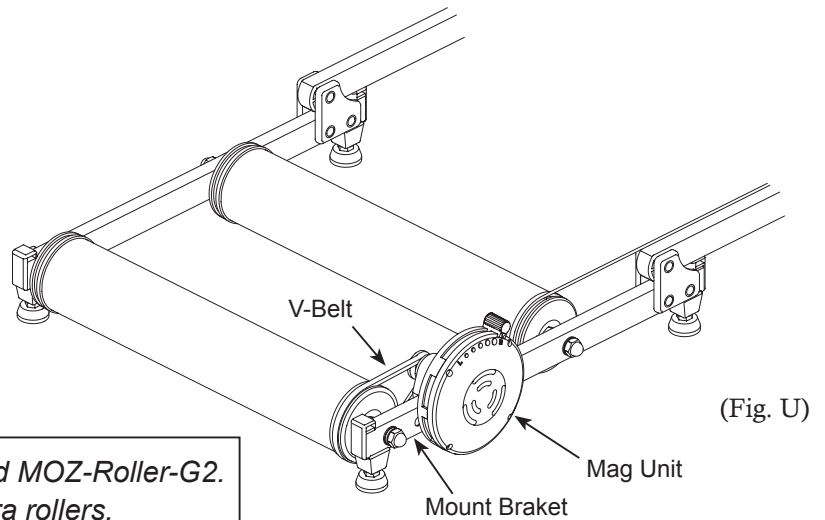
(Fig. T)

- 5** Put the Foot Step over the Center Frame.
If the Adjuster is too short and doesn't reach the floor, extend it.

About Optional Mag Unit

If you require more resistance than what the rollers originally provide, you can purchase the optional **Mag Unit** and install it on the rear roller.

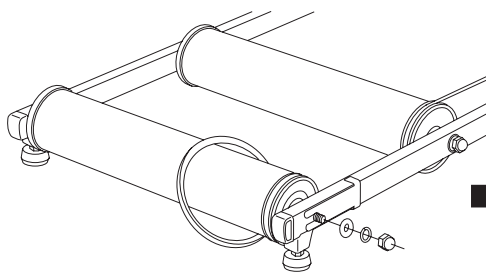
The power level is adjustable in five levels by sliding the top lever.
It is powered by the **Rear Roller** via a **K-16 V-belt**.



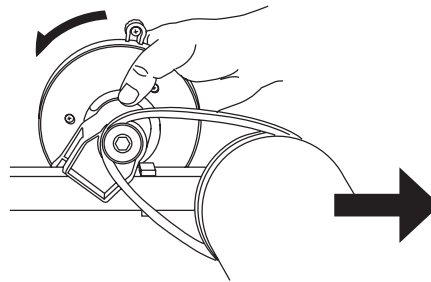
(Fig. U)



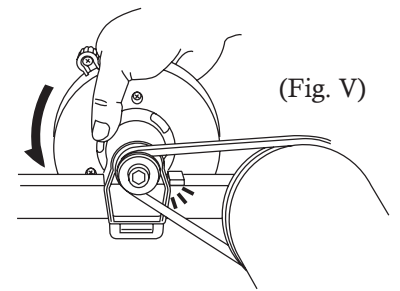
*This unit is only for MOZ-Roller and MOZ-Roller-G2.
It will not work on any other Minoura rollers.*



Install the Mount Bracket to the Rear Roller. (Either side is OK)



Hook the V-belt to both roller drum and the pulley.



(Fig. V)

Push down to lock.
If the belt tension is too loose or too tight, adjust the bracket position.

If Your Roller Belt Breaks

The Minoura roller belt is designed to be a universal fit for all Minoura rollers.

While the belt is built to last for many years, if you ever need to replace it your local Minoura dealer can assist you, or you can contact Minoura directly. The part number for the replacement belt is 400-3098-00.

Warranty Service

Minoura offers **1-year limited warranty** for this product from the date of purchase.

Any natural wear and problems caused by misuse or unapproved modification are not covered under this warranty. This warranty is applicable only to the original user and becomes void if terms are not met.

For more information, please refer to the attached "**Minoura Limited Warranty Policy**" card and visit Minoura's web site for the latest information.