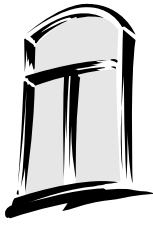




GOLDENLINE

Maintenance
Instructions

Adjustments



Introduction

Important Instructions

Please read before using these Maintenance Instructions

IMPROPER MAINTENANCE

Improper maintenance may void your warranty. Please pay close attention to these instructions.

IMPROPER BLIND INSTALLATION

Improper blind or curtain installation may void our glass warranty. Please pay close attention to the Blinds – Section 5.

INSTALLATION INSTRUCTIONS

Should you require installation instructions, it is available on our website or refer to the contact information below.

WARRANTY INFORMATION

Warranty information is available. Refer to the contact information below.

CONTACT INFORMATION

EuroLine Windows Inc. 7620 MacDonald Road, Delta BC V4G 1N2

Telephone 604-940-8485 Fax 604-940-8486

Toll Free 1-800-337-8604

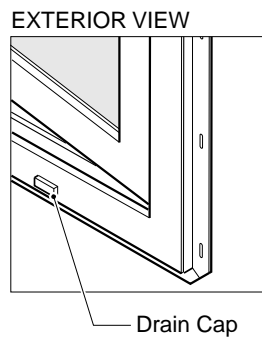
Web Site www.euroline-windows.com

Frame

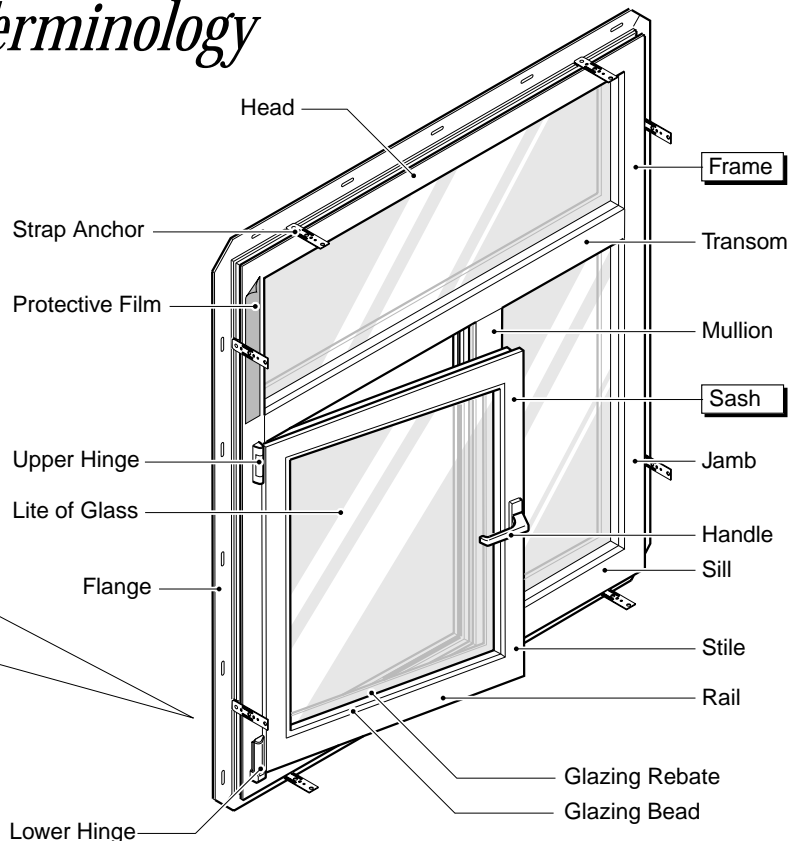
The fixed parts of the window or door.
The frame includes the head, jambs, sill, transoms, and mullions. The frame does not include the sash.

Sash

The movable part of the window or door.
The sash includes the top and bottom rails, and the left and right stiles.



Terminology



Section 4 Adjustments

How to Adjust Tilt & Turn Windows and Doors

Tools Required:

11 mm wrench
4 mm allen key

With EuroLine's unique Tilt & Turn hardware system you can adjust window or door sashes to compensate for the effects of small settlements, heavy use, and for wear of the hardware components and the sealing gaskets. These adjustments allow you to maintain the performance of your windows and doors much longer than conventional hardware systems allow.

Sash Binding Problems?

The sash may bind against the fixed frame at one or more points after the building settles, or because of heavy use. You can increase the clearance between the frame and the sash with one or more of these three adjustments:

Adjustment 1: Upper Hinge Offset

Adjustment 2: Sash Height

Adjustment 3: Lower Hinge Offset

Closing Tightness Problems?

The sash may close less tightly after many years of use. These adjustments make the sash close more tightly or less tightly. To reduce air leakage around the sash, make the sash close more tightly. To make the Euro-Handle easier to operate, make the sash close less tightly.

You can increase or decrease the closing tightness with one or more of these adjustments:

Adjustment 4: Locking Cam Closing Tightness

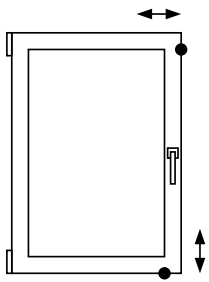
Adjustment 5: Shear Closing Tightness

Adjustment 6: Corner Drive Closing Tightness

How To Correct Sash Binding Problems

Use a 4 mm allen key for Adjustments 1 - 3. For all of these adjustments, first turn the allen screw 1/4 turn, then operate the sash to see if you have corrected the problem. Repeat if necessary: turn the screw approximately 1/4 turn each time, until the sash stops binding.

When you correct the binding with one adjustment, you may cause the sash to bind in another place. You may have to make more than one adjustment to correct all of the binding problems.



If the sash binds at one of these locations, use this adjustment to "tilt" the sash towards the upper hinge.

Adjustment 1: Upper Hinge Offset

Maximum Adjustment: Raises the bottom corner of the sash 3 mm. Lowers the bottom corner of the sash 1.5 mm

This adjustment moves the top of the sash towards the upper hinge or away from it.

With the Euro-Handle in the Turn position, open the sash as far as it will open. Insert the 4 mm allen key into the head of the screw at the end of the shear arm. To tilt the sash towards the upper hinge, rotate this screw in a counter-clockwise direction. This raises the bottom corner of the sash on the handle side. To tilt the sash away from the upper hinge, rotate the screw in a clockwise direction. This lowers the bottom corner of the sash on the handle side.

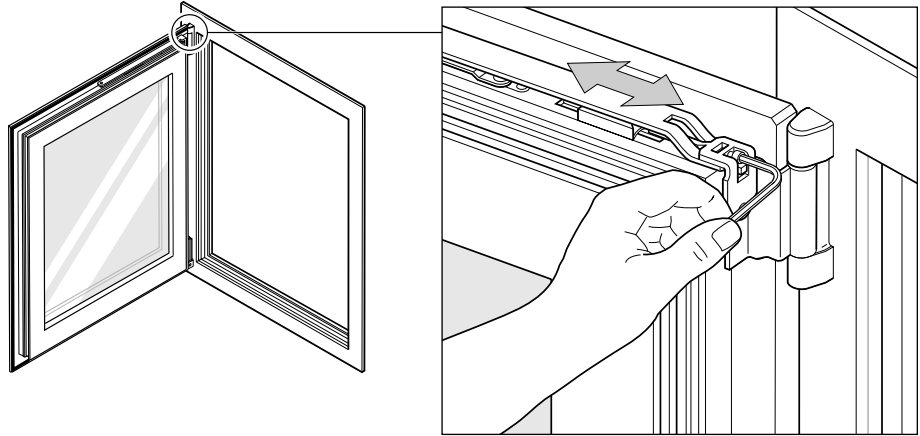
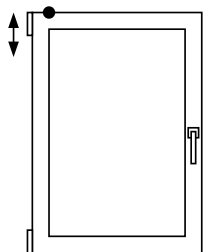


Figure 4-1.



If the sash binds at the top when you open it in the Tilt position, use this adjustment to lower the sash.

Adjustment 2: Sash Height

Maximum Adjustment: Raises the sash 3 mm. Lowers the sash 3 mm

This adjustment raises or lowers the sash.

With the Euro-Handle in the Turn position, open the sash approximately 2" (50 mm). Remove the plastic cover from the top of the lower hinge body. Insert the 4 mm allen key into the top of the exposed screw head. To raise the sash, rotate the screw in a clockwise direction. To lower the sash, rotate the screw in a counter-clockwise direction. After adjusting, check that the tilt function operates correctly.

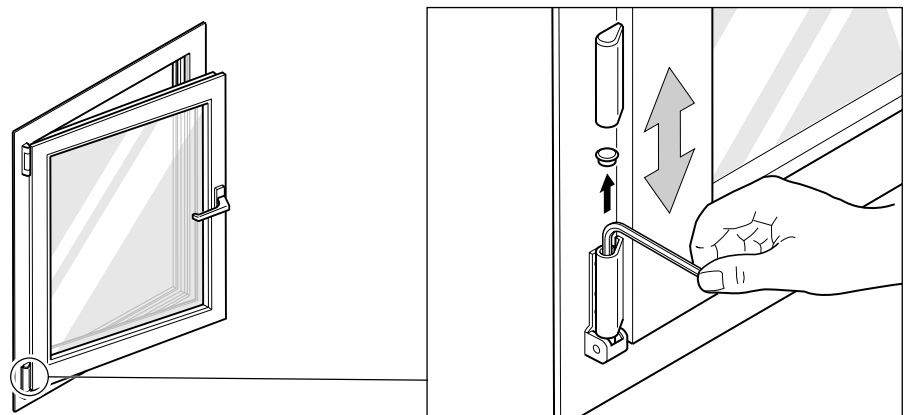
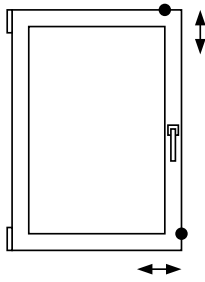


Figure 4-2.



If the sash binds at one of these locations, use this adjustment to "tilt" the sash towards the lower hinge.

Adjustment 3: Lower Hinge Offset

Maximum Adjustment: Moves the sash 2 mm to the right. Moves the sash 2 mm to the left.

This adjustment moves the bottom of the sash towards the lower hinge, or away from it.

With the Euro-Handle in the Turn position, open the sash. Insert the 4 mm allen key into the pivot screw below the lower hinge. To move the sash towards the hinge, rotate the screw in a clockwise direction. This lowers the top of the sash. To move the sash away from the hinge, rotate the screw in a counter-clockwise direction. This raises the top of the sash.

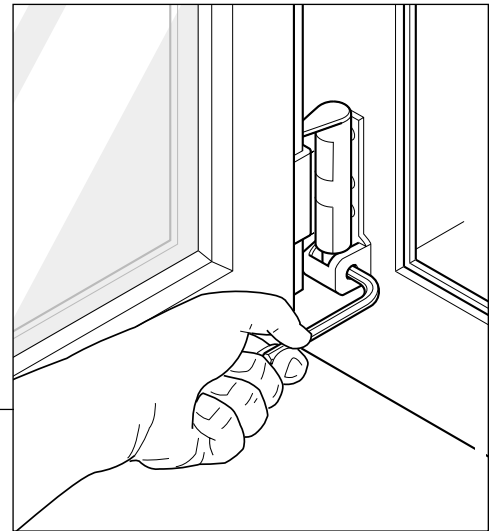
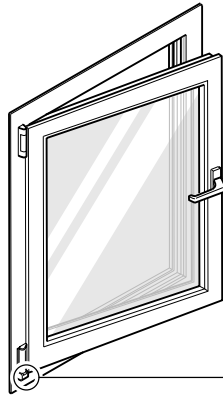


Figure 4-3.

How To Correct Closing Tightness Problems

Use these adjustments to reduce air leakage around the sash, or to make the Euro-Handle easier to operate.

If you have an air leakage problem, you need to adjust the hardware that is closest to the location where the air leaks in. First, try to correct the problem by increasing the closing tightness of the nearest locking cam using Adjustment 4. If this does not correct the problem, you will need to do one of the adjustments that follow. If the air leaks at the upper hinge, increase the closing tightness using Adjustment 5. If the air leaks at the corner of the sash below the handle, increase the closing tightness using Adjustment 6. If you have air leakage at another location, increase the closing tightness of the nearest locking cam(s) using Adjustment 4. Do not increase the closing tightness any more than you need to in order to control the immediate problem, or the Euro-Handle will become difficult to operate.

If the Euro-Handle is difficult to operate, use these adjustments to decrease the closing tightness. Do the adjustments in the following order: first, use Adjustment 4 to decrease the closing tightness of the locking cams. If this does not correct the problem, use Adjustment 5 to decrease the shear closing tightness. If this does not make the handle operate more easily, undo the adjustment. Then use Adjustment 6 to decrease the corner drive closing tightness.

Adjustment 4: Locking Cam Closing Tightness

Maximum Adjustment: Moves the sash 0.8 mm towards the frame. Moves the sash 0.8 mm away from the frame.

Open the sash, notice the cylindrical eccentric locking cams along the top and along both sides of the open sash. Close the sash. With the Euro-Handle in the Turn position, open the sash. You may also find one or more cams along the bottom of the sash.

Notice that each cam has an index groove stamped into its head. There are many different positions for each locking cam head. The index groove shows the current position. Refer to the position of the index groove before you adjust a cam.

With the sash in the most convenient Tilt or Turn position, adjust the closing tightness of a locking cam using the 4 mm allen key.

To increase the closing tightness, turn the fat side of the cam towards the gasket. To decrease the closing tightness, turn the fat side of the cam away from the gasket.

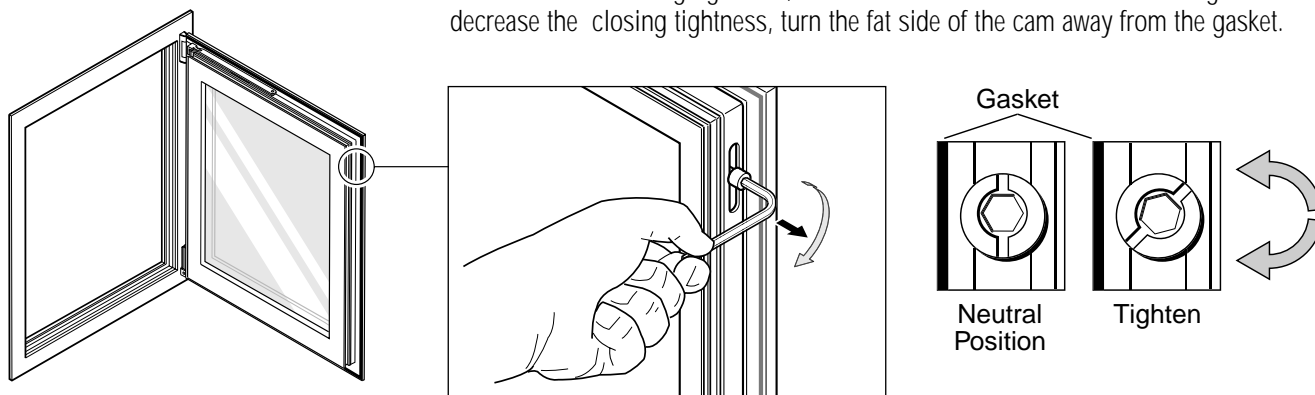


Figure 4-4.

CAUTION

When you increase the closing tightness with Adjustments 5 and 6, the Euro-Handle will become more difficult to operate. Increase the closing tightness only if you have excessive air leakage.

Adjustment 5: Shear Closing Tightness

Maximum Adjustment: Moves the sash 1.5 mm closer to the frame. Moves the sash 1.5 mm away from the frame.

Use a 4 mm allen key to make this adjustment. When you use the allen key, first turn the screw 1/4 turn, then operate the sash to see if you have corrected the problem. Repeat if necessary: turn the screw approximately 1/4 turn each time, until you correct the problem.

With the Euro-Handle in the bottom (Tilt) position, tilt the sash. Insert the 4 mm allen key into the screw head on the underside of the shear arm. To increase the closing tightness, rotate the screw in a clockwise direction. To decrease the closing tightness, rotate the screw in a counter-clockwise direction.

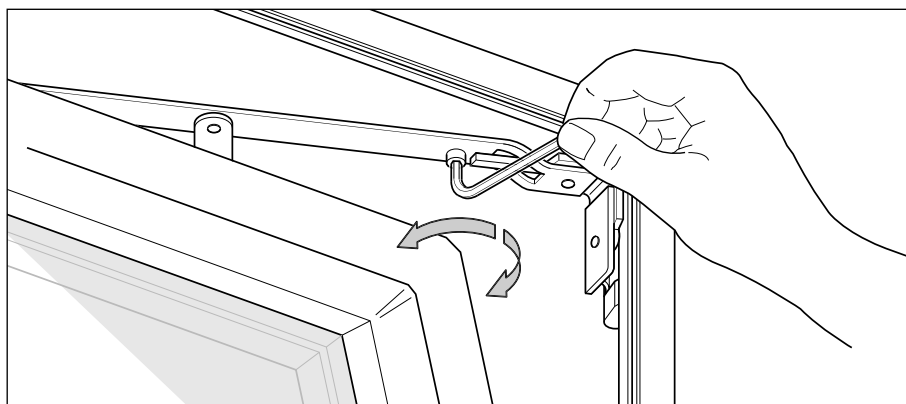


Figure 4-5.

Adjustment 6: Corner Drive Closing Tightness

Maximum Adjustment: Moves the sash 1.5 mm closer to the frame. Moves the sash 1.5 mm away from the frame.

With the Euro-Handle in the Turn position, open the sash. On the Euro-Handle side of the sash, at the bottom corner, find the screw head located on the sliding plate. Insert the 11 mm wrench as shown in figure 4-6.

When you use the wrench, first turn the screw 1/4 turn, then operate the sash to see if you have corrected the problem. Repeat if necessary: turn the screw approximately 1/4 turn each time, until you correct the problem.

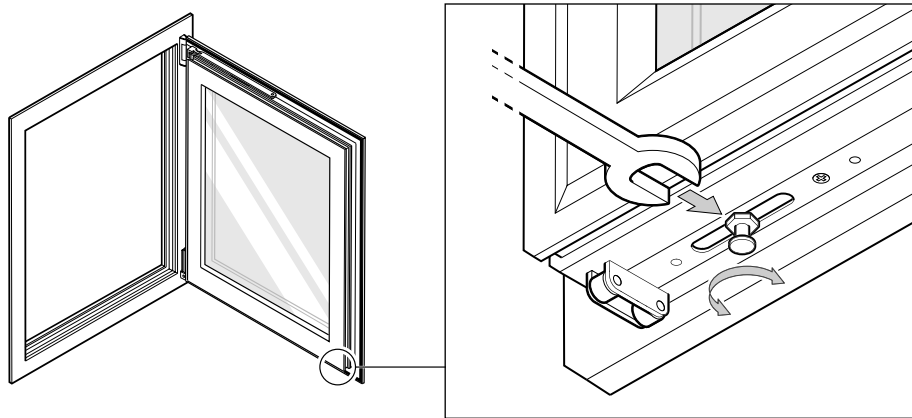


Figure 4-6.

Note:

To remove or reinstall a sash, read our GoldenLine Installation Instructions. It is available at www.euroline-windows.com or contact us directly.

How To Reset A Hung Sash

- Step 1** Depress the fail safe switch and turn the handle to the tilt position. See fig. 2-23.
- Step 2** Gently push the upper hinge corner of the sash against the frame, while leaving the sash open.
- Step 3** While depressing the fail safe switch, rotate the handle to the turn position. Release the fail safe switch. The window is now reset in the turn position.

Note: The above figures are for a Tilt & Turn window. For a Tilt Before Turn window, use the above instructions, using the handle positions shown in fig. 2-1.

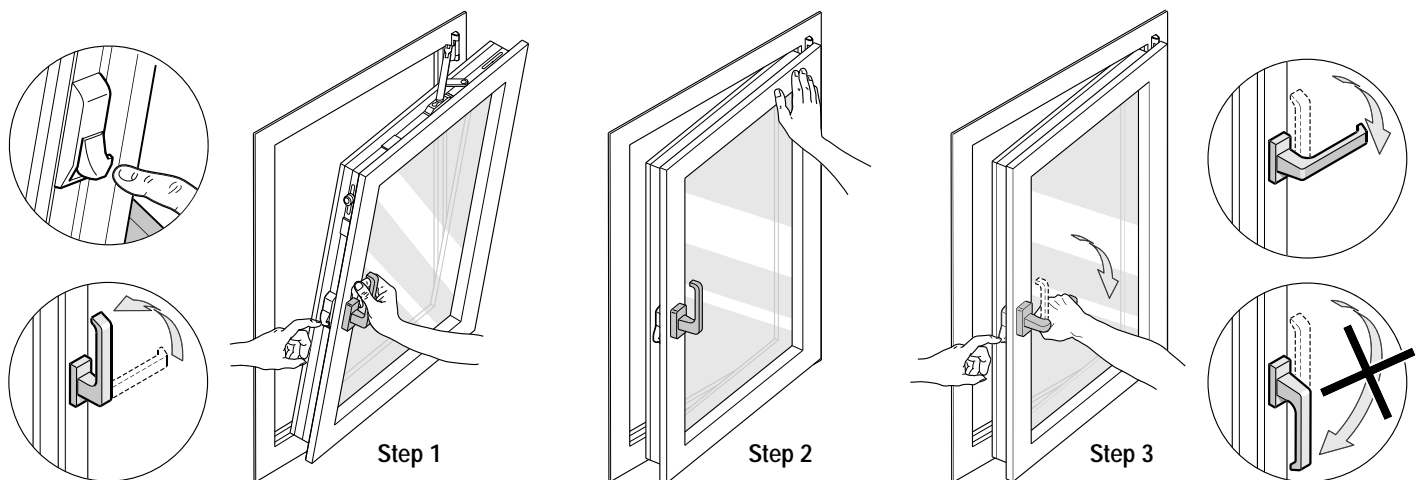


Figure 4-7.

How to Adjust Hinged Doors

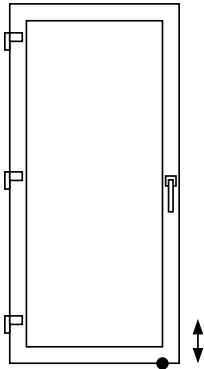
Adjustment 1: Vertical Clearance

Maximum Adjustment: Raises the sash 4 mm from the factory setting.

This adjustment moves the sash up or down.

Open the sash approximately 2" (50 mm). Insert the 4 mm allen key into the recessed screw head in the bottom of the hinge. To raise the sash height, rotate the screw in a clockwise direction. To lower the sash height, rotate the screw in a counter-clockwise direction.

Make sure that you **raise or lower all three hinges by the same amount.**



If the sash binds at the bottom, use this adjustment to raise the sash.

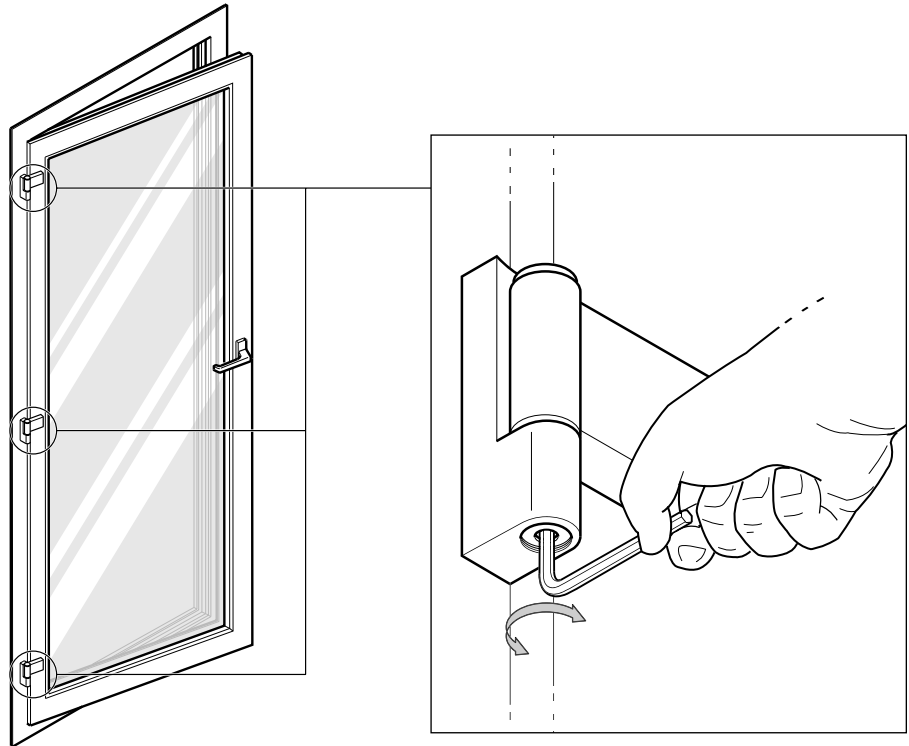


Figure 4-8.

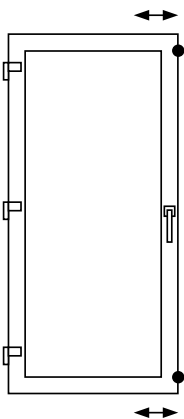
Adjustment 2: Horizontal Clearance

Maximum Adjustment: Moves the sash 5 mm to the left. Moves the sash 5 mm to the right.

This adjustment moves the sash from side to side.

How To Remove The Security Cover

Most EuroLine pivot hinges have a tamperproof security cover. One screw holds the cover in place. To find the concealed screw, open the sash 90°. The screw is on the back side of the hinge body. Use a 4 mm allen key to loosen the screw.



If the sash binds at the handle side, use this adjustment to move the sash towards the hinges.

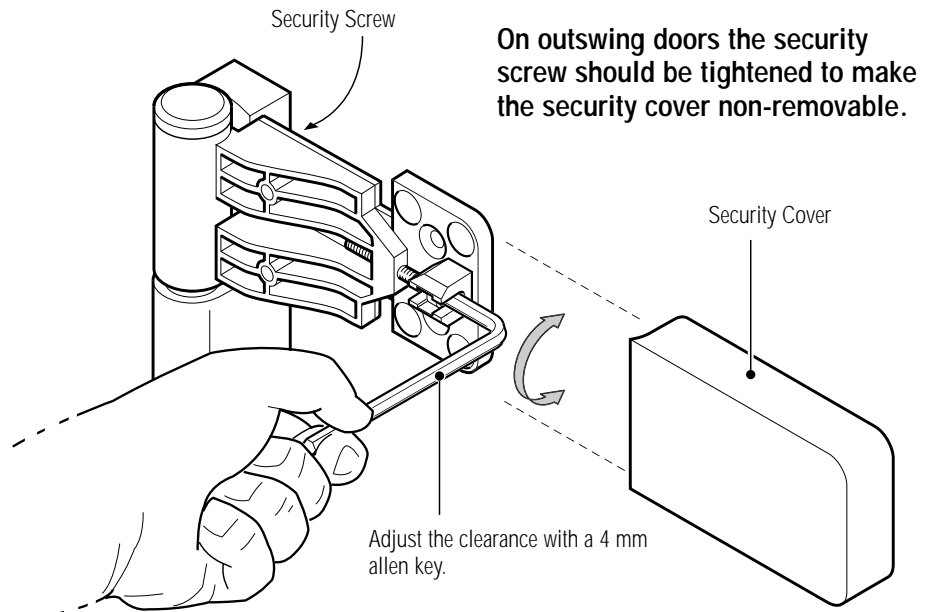
CAUTION

Do not adjust the sash more than 2 mm to the left or 2 mm to the right. If you adjust the sash more than 2 mm, you will reduce the coverage of the sealing gaskets.

How To Make The Horizontal Clearance Adjustment

Open the sash approximately 2" (50 mm). Insert the 4 mm allen key into the recessed screw head on the edge of the hinge body. To move the sash away from the hinge, rotate the screw in a clockwise direction. To move the sash towards the hinge, rotate the screw in a counter-clockwise direction.

Make sure that you **adjust all three hinges by the same amount.**



There are different hinge styles. The hinge may not look exactly as shown.

Figure 4-9.

How To Correct Closing Tightness Problems

Use these adjustments to reduce air leakage around the sash, or to make the Euro-Handle easier to operate.

If you have an air leakage problem, try to correct it by increasing the closing tightness of the nearest locking cam(s) using Adjustment 3. If this does not correct the problem because the air leakage occurs at a hinge, increase the closing tightness of that hinge using Adjustment 4. Do not increase the closing tightness any more than you need to in order to control the immediate problem, or the Euro-Handle will become difficult to operate.

If the Euro-Handle is difficult to operate, use Adjustment 3 to decrease the closing tightness of the locking cams.

Adjustment 3: Locking Cam Closing Tightness

Maximum Adjustment: Moves the sash 0.8 mm towards the frame. Moves the sash 0.8 mm away from the frame.

Open the sash. Notice the cylindrical locking cams along the vertical edge of the open sash. You may find one or more cams along the top or along the bottom of the sash as well. Notice that each cam has an index groove stamped into its head. The index groove shows the current position. Refer to the position of the index groove before you adjust a cam.

With the sash in the most convenient Tilt or Turn position, adjust the closing tightness of a locking cam using the 4 mm allen key.

To increase the closing tightness, turn the fat side of the cam towards the gasket. To decrease the closing tightness, turn the fat side of the cam away from the gasket.

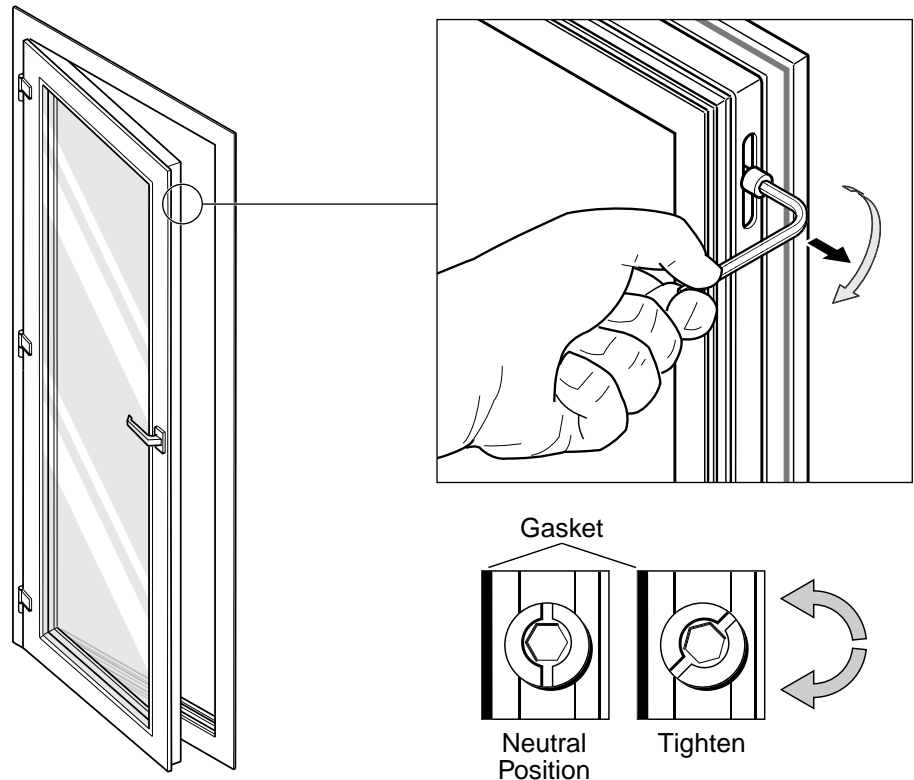


Figure 4-10.

Adjustment 4: Corner Drive Closing Tightness

Maximum Adjustment: Moves the sash 1.5 mm closer to the frame. Moves the sash 1.5 mm away from the frame.

With the Euro-Handle in the Turn position, open the sash. On the Euro-Handle side of the sash, at the bottom corner, find the screw head located on the sliding plate. Insert the 11 mm wrench as shown in fig. 4-11 on the following page.

When you use the wrench, first turn the screw 1/4 turn, then operate the sash to see if you have corrected the problem. Repeat if necessary: turn the screw approximately 1/4 turn each time, until you correct the problem.

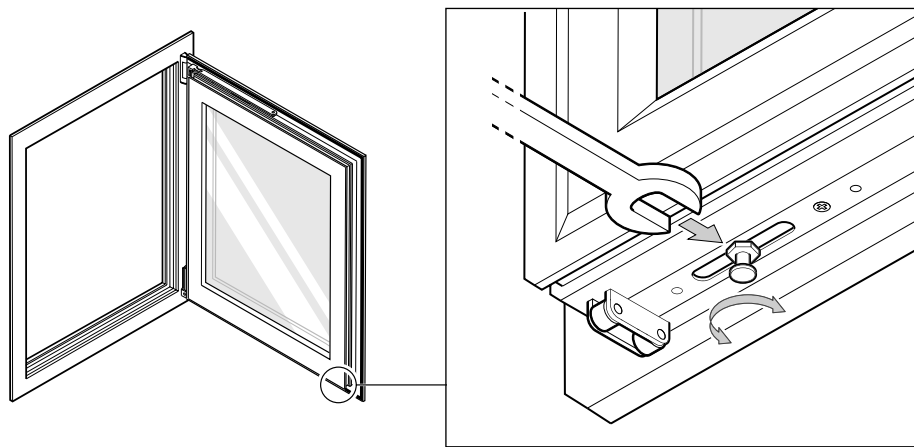


Figure 4-11. Corner Drive Closing Tightness

Note:

The hinge pin is mounted inside an eccentric sleeve. When you turn the screw head in the top of the hinge pin the sleeve rotates.

Adjustment 5: Hinge Closing Tightness

Maximum Adjustment: Moves the sash 0.8 mm closer to the frame. Moves the sash 0.8 mm away from the frame.

Use a small knife blade or a flat head screw driver to remove the plastic cap from the top of each hinge.

Open the sash approximately 2" (50 mm). Insert the 4 mm allen key into the recessed screw head on the top of the hinge pin. To move the sash closer to the frame or to move it farther away, rotate the screw. This adjustment also moves the sash slightly to one side or to the other. You can rotate the screw in either direction.

You can measure the distance between the moving part of the hinge and the fixed part of the hinge that is attached to the frame. **Adjust all three hinges to the same distance.** Replace the plastic cap to the top of each hinge.

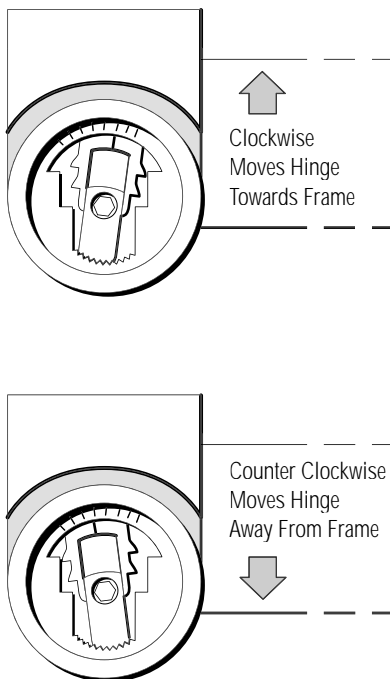
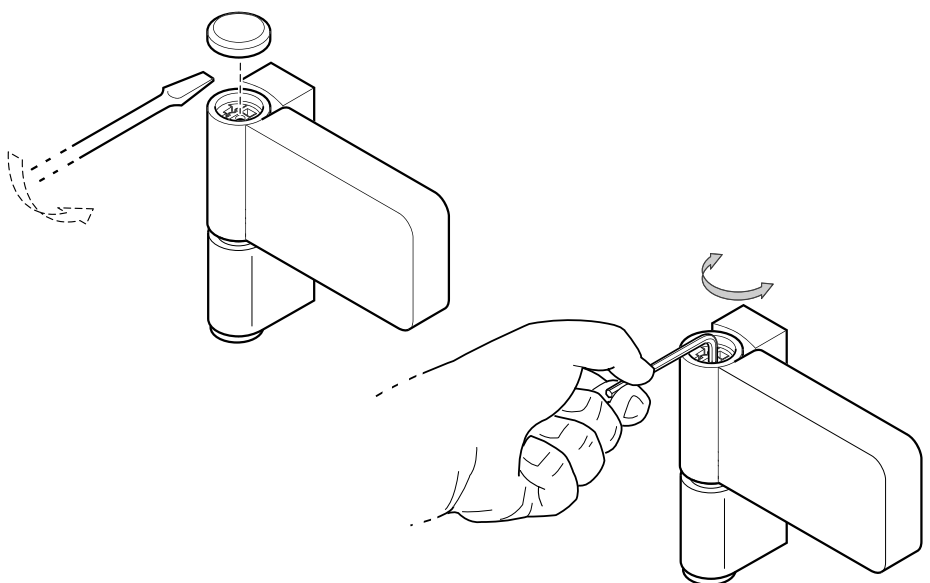


Figure 4-12.



There are different hinge styles. The hinge may not look exactly as shown.

Figure 4-13.

How to Adjust Tilt and Glide Doors

With EuroLine's unique Tilt & Glide hardware system you can adjust window or door sashes to compensate for the effects of settling, heavy use, and for wear of the hardware components and the sealing gaskets. These adjustments allow you to maintain the performance of your windows and doors much longer than conventional hardware systems allow.

Sash Binding Problems?

The sash may bind against the fixed frame at one or more points after the building settles, or because of heavy use. You can increase the clearance between the frame and the sash with Adjustment 1: Gliding Shoe Height.

Closing Tightness Problems?

The sash may close less tightly after many years of use. These adjustments make the sash close more tightly or less tightly. To reduce air leakage around the sash, make the sash close more tightly. To make the Euro-Handle easier to operate, make the sash close less tightly.

You can increase or decrease the closing tightness with Adjustment 2: Locking Cam Closing Tightness.

How To Correct Sash Binding Problems

There are two gliding shoes on a sliding sash. This adjustment (shown on the following page) raises or lowers the side of the sash nearest to the gliding shoe. When you raise or lower the sash on only one side, you make the sash tilt. When you raise or lower the sash differently on each side, you also make the sash tilt.

If the bottom of the sash binds against the frame, use this adjustment on both shoes to lift the bottom of the sash. If the top of the sash binds against the frame, use this adjustment on both shoes to lower the sash. To move the sash straight up or straight down, adjust both shoes by the same amount.

Adjustment 1: Gliding Shoe Height

Maximum Adjustment: Raises the sash 3 mm. Lowers the sash 3 mm.

This procedure shows you how to adjust the sash height on one gliding shoe. If you want to move the sash straight up or straight down, adjust the sash height on both gliding shoes by the same amount. If you want to tilt the sash to correct binding problems on the sides of the sash, you may only need to raise or lower the sash on one gliding shoe. You may also need to raise the sash height on one gliding shoe, and lower it on the other.

Remove both end caps from the hardware cover (see fig. 4-14).

Remove the hardware cover. Press down on the top of the cover with one hand, and gently pull the bottom of the cover away from the sash, until it "clicks." Do not use force, or you will damage the cover (see fig. 4-15). Now lift the cover straight up (see fig. 4-16).

Use the 4 mm wrench to loosen the lock nut on the side of the gliding shoe (see fig. 4-16).

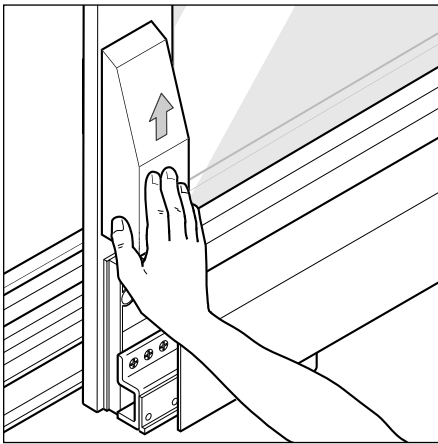


Figure 4-14. End Cap Removal

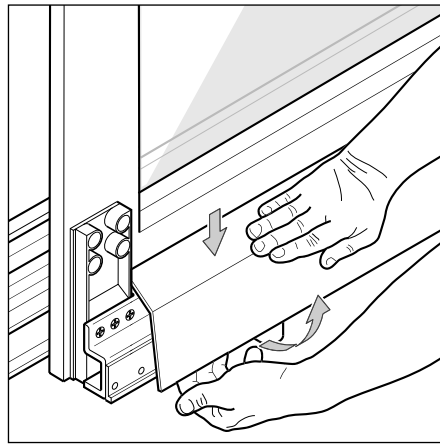


Figure 4-15. Hardware Cover Removal

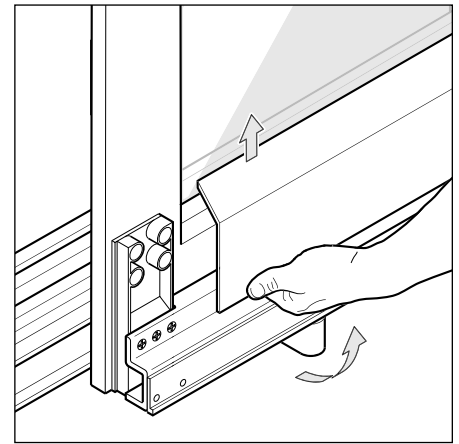


Figure 4-16. Hardware Cover Removal

Insert the 8 mm allen key into the top of the adjusting screw. Turn the screw in a clockwise direction to raise the sash. Turn the screw in a counter-clockwise direction to lower the sash (see fig. 4-18).

Turn the allen screw 1/4 turn at first, then operate the sash to see if you have corrected the problem. Repeat if necessary: turn the screw approximately 1/4 turn each time, until the sash stops binding.

Use the 4 mm wrench to tighten the lock nut on the side of the gliding shoe (see fig. 4-17).

Replace the hardware cover. First, hang the top of the cover on the gliding shoes. Then press downwards on the face of the cover until it clicks in place (see fig. 4-19).

Replace the end caps (see fig. 4-19).

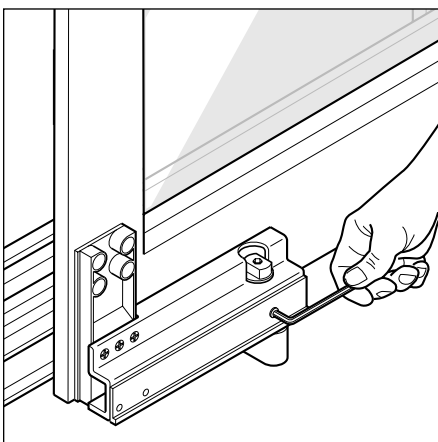


Figure 4-17. Use 4 mm Allen Key

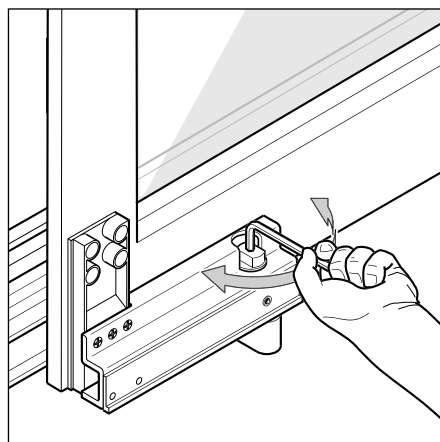


Figure 4-18. Use 8 mm Allen Key

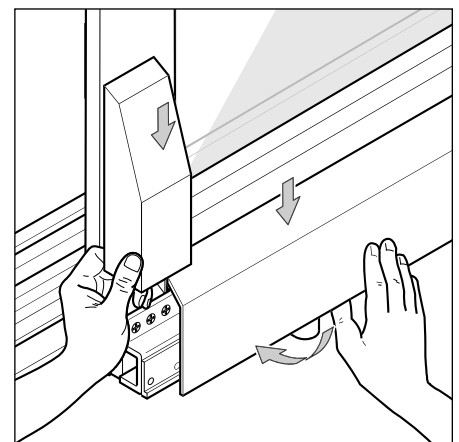


Figure 4-19. Replace Covers

How To Correct Closing Tightness Problems

Use this adjustment to reduce air leakage around the sash, or to make the Euro-Handle easier to operate.

If you have air leakage at any point around the sash, increase the closing tightness of the nearest locking cam(s) using Adjustment 2. Do not increase the closing tightness any more than you need to in order to control the immediate problem, or the Euro-Handle will become difficult to operate.

If the Euro-Handle is difficult to operate, use Adjustment 2 to decrease the closing tightness of the locking cams.

Adjustment 2: Locking Cam Closing Tightness

Maximum Adjustment: Moves the sash 0.8 mm towards the frame. Moves the sash 0.8 mm away from the frame.

With the Euro-Handle in the Glide position, open the sash. Notice the cylindrical locking cams along the top and along both sides of the open sash.

Notice that each cam has an index groove stamped into its head. The index groove shows the current position. Refer to the position of the index groove before you adjust a cam.

With the sash open in the Glide position, adjust the closing tightness of a locking cam as follows:

Insert the 4 mm allen key into the cam.

To increase the closing tightness, turn the fat side of the cam towards the gasket. To decrease the closing tightness, turn the fat side of the cam away from the gasket.

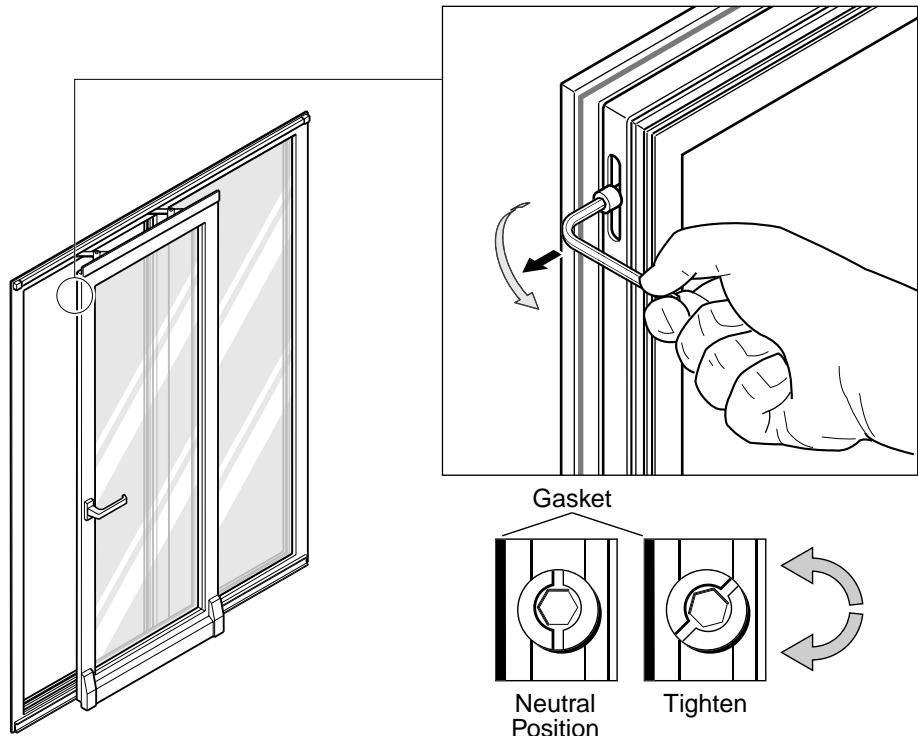


Figure 4-20.

For more information on these quality products please contact:

EuroLine Windows Inc.

7620 MacDonald Road
Delta, BC. Canada V4G 1N2

T. 604.940.8485

F. 604.940.8486

E. mail@euroline-windows.com

w. www.euroline-windows.com

Toll Free: 1 800 337.8604

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Euroline Windows Inc.:

Product Catalogue

GoldenLine Installation Instructions

SilverLine Installation and Maintenance Instructions

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