



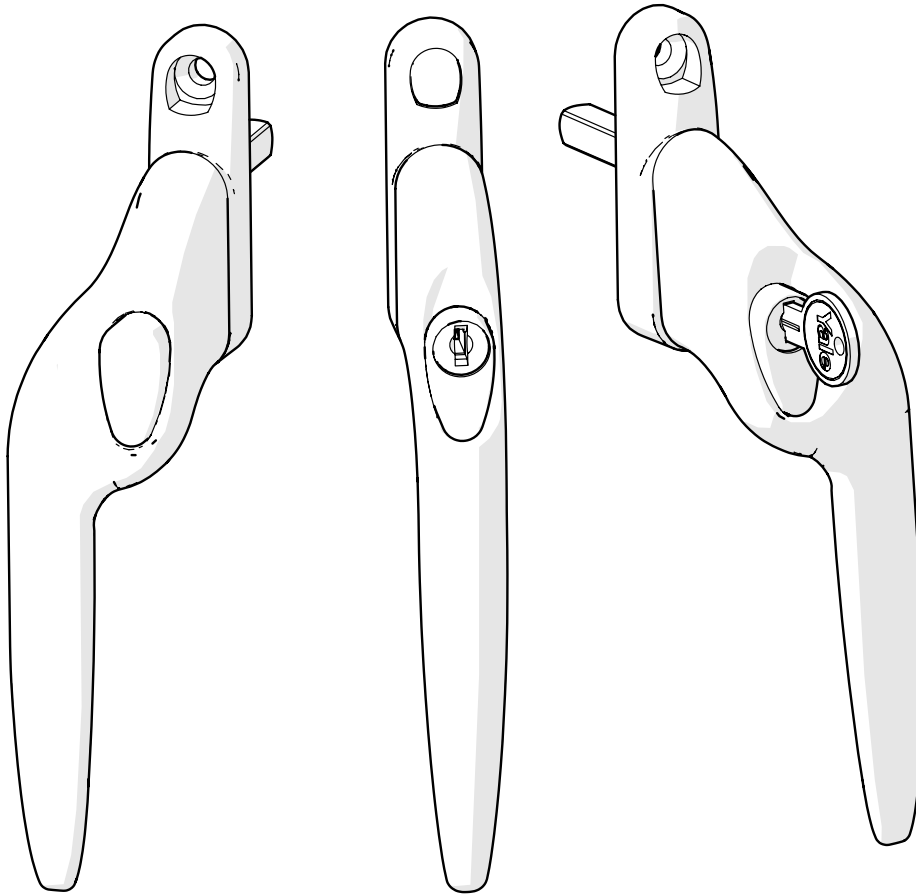
Quartus Espag Handle

Technical Manual

Yale Quartus Espag Handle

Product Overview

Issue: February 2021



Product features

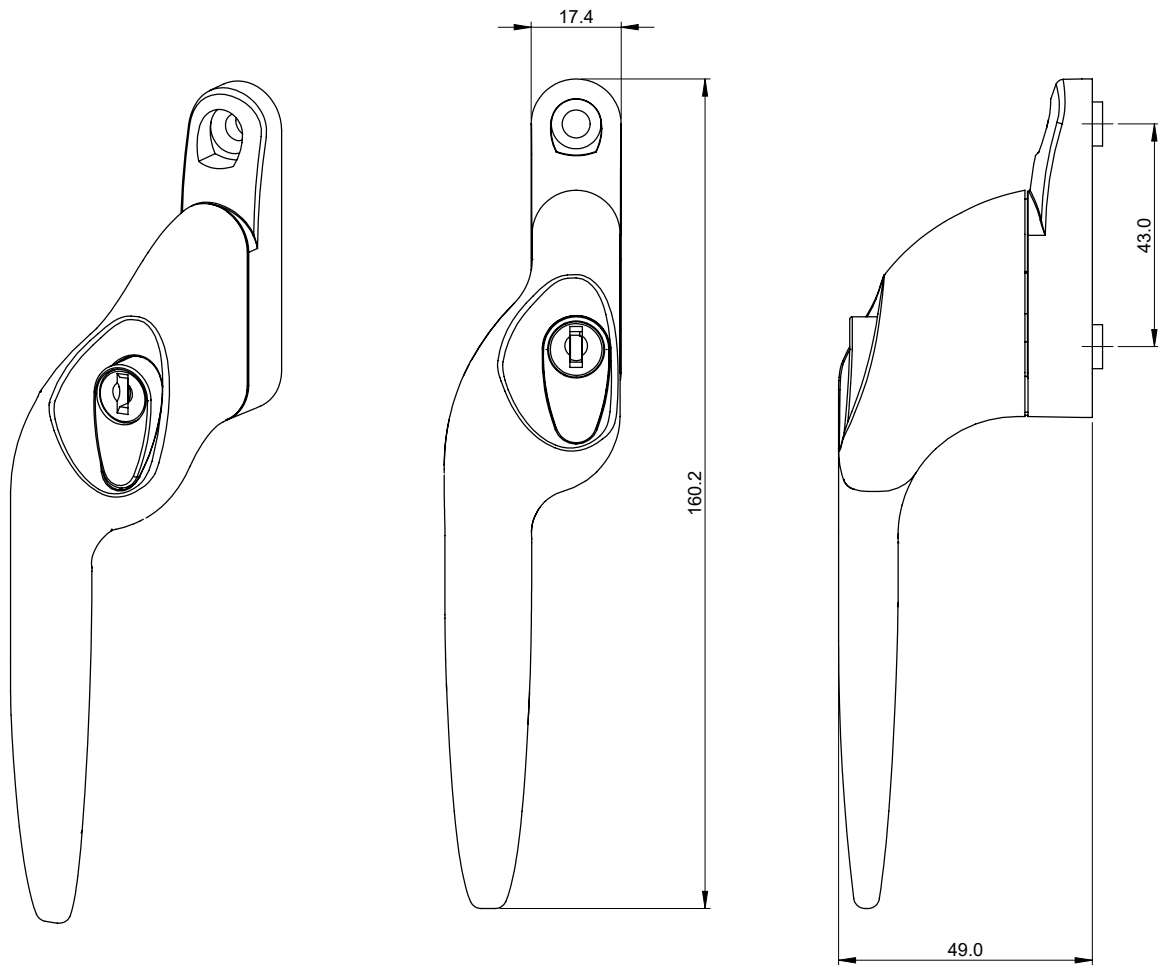
The product features of the Yale Quartus Espag Handle are;

- Push to unlatch Yale branded mechanism
- Key operated locking mechanism
- Key deadlocking for added security and safety
- Non-locking push to unlatch version in Black, White and Green for egress applications available
- Aesthetically pleasing as part of the suited range of window hardware
- Available in inline and offset variants
- Available in Satin Black, Chrome, Champagne Gold, Silver, and White finishes
- Available with a variety of spindle lengths ranging from 10mm - 75mm to accommodate a wide range of window profiles
- Fixed spindle supplied as standard
- Supplied with screws, colour matched screw caps and cylinder plug to achieve a non-locking solution
- Supplied with a Yale branded key
- Spare keys, screw cover caps and blanking plugs available upon request

Yale Quartus Espag Handle

Product Features: Left-Hand Offset

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Part codes and Variants

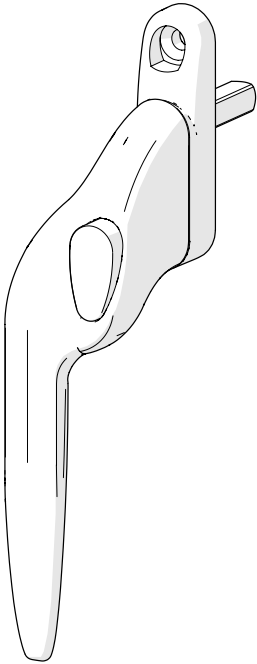
Square Drive Length (mm)	Part Code				
	White	Satin Black	Chrome	Champagne Gold	Silver
10	YBC10WHL	YBC10SBL	YBC10CHL	YBC10CGL	YBC10SLL
15	YBC15WHL	YBC15SBL	YBC15CHL	YBC15CGL	YBC15SLL
20	YBC20WHL	YBC20SBL	YBC20CHL	YBC20CGL	YBC20SLL
25	YBC25WHL	YBC25SBL	YBC25CHL	YBC25CGL	YBC25SLL
30	YBC30WHL	YBC30SBL	YBC30CHL	YBC30CGL	YBC30SLL
35	YBC35WHL	YBC35SBL	YBC35CHL	YBC35CGL	YBC35SLL
40	YBC40WHL	YBC40SBL	YBC40CHL	YBC40CGL	YBC40SLL
45	YBC45WHL	YBC45SBL	YBC45CHL	YBC45CGL	YBC45SLL
50	YBC50WHL	YBC50SBL	YBC50CHL	YBC50CGL	YBC50SLL
55	YBC55WHL	YBC55SBL	YBC55CHL	YBC55CGL	YBC55SLL
60	YBC60WHL	YBC60SBL	YBC60CHL	YBC60CGL	YBC60SLL
65	YBC65WHL	YBC65SBL	YBC65CHL	YBC65CGL	YBC65SLL
70	YBC70WHL	YBC70SBL	YBC70CHL	YBC70CGL	YBC70SLL
75	YBC75WHL	YBC75SBL	YBC75CHL	YBC75CGL	YBC75SLL

Note: For the most up-to-date information on available square drive length and handle finishes, please refer to our website or contact the Yale DWS customer service team.
Please note that a square drive can also be referred to as a spindle.

Yale Quartus Espag Handle

Product Features: Left-Hand offset Non locking

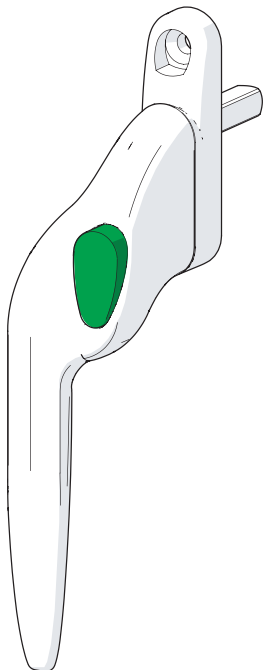
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Part codes and variants

Square Drive Length (mm)	Part Code				
	White	Satin Black	Chrome	Champagne Gold	Silver
10	YC10WHL	YC10SBL	YC10CHL	YC10CGL	YC10SLL
15	YC15WHL	YC15SBL	YC15CHL	YC15CGL	YC15SLL
20	YC20WHL	YC20SBL	YC20CHL	YC20CGL	YC20SLL
25	YC25WHL	YC25SBL	YC25CHL	YC25CGL	YC25SLL
30	YC30WHL	YC30SBL	YC30CHL	YC30CGL	YC30SLL
35	YC35WHL	YC35SBL	YC35CHL	YC35CGL	YC35SLL
40	YC40WHL	YC40SBL	YC40CHL	YC40CGL	YC40SLL
45	YC45WHL	YC45SBL	YC45CHL	YC45CGL	YC45SLL
50	YC50WHL	YC50SBL	YC50CHL	YC50CGL	YC50SLL
55	YC55WHL	YC55SBL	YC55CHL	YC55CGL	YC55SLL
60	YC60WHL	YC60SBL	YC60CHL	YC60CGL	YC60SLL
65	YC65WHL	YC65SBL	YC65CHL	YC65CGL	YC65SLL
70	YC70WHL	YC70SBL	YC70CHL	YC70CGL	YC70SLL
75	YC75WHL	YC75SBL	YC75CHL	YC75CGL	YC75SLL

Note: For the most up-to-date information on available square drive length and handle finishes, please refer to our website or contact the Yale DWS customer service team.
Please note that a square drive can also be referred to as a spindle.



Part codes and variants (Egress / Fire escape)

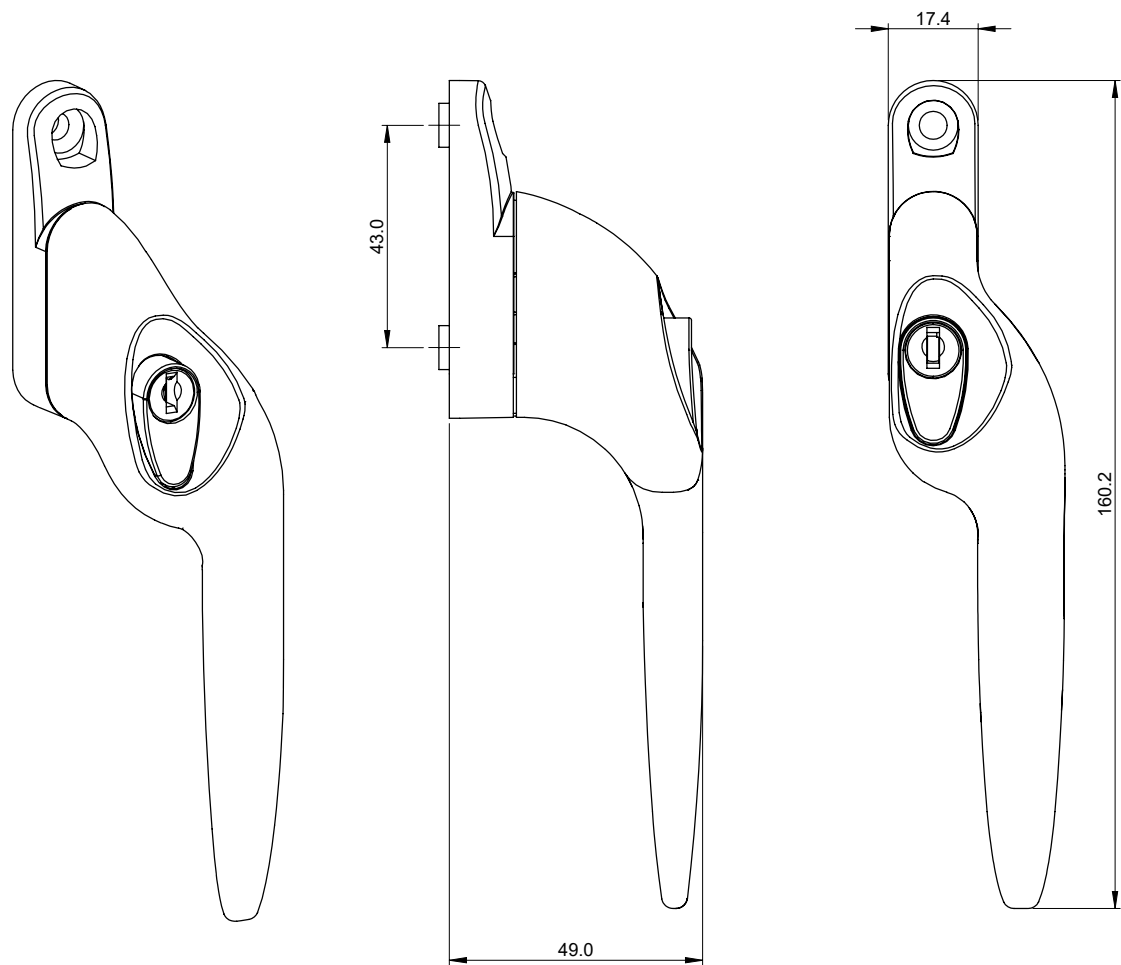
Square Drive Length (mm)	Part Code				
	White	Satin Black	Chrome	Champagne Gold	Silver
10	YEC10WHL	YEC10SBL	YEC10CHL	YEC10CGL	YEC10SLL
15	YEC15WHL	YEC15SBL	YEC15CHL	YEC15CGL	YEC15SLL
20	YEC20WHL	YEC20SBL	YEC20CHL	YEC20CGL	YEC20SLL
25	YEC25WHL	YEC25SBL	YEC25CHL	YEC25CGL	YEC25SLL
30	YEC30WHL	YEC30SBL	YEC30CHL	YEC30CGL	YEC30SLL
35	YEC35WHL	YEC35SBL	YEC35CHL	YEC35CGL	YEC35SLL
40	YEC40WHL	YEC40SBL	YEC40CHL	YEC40CGL	YEC40SLL
45	YEC45WHL	YEC45SBL	YEC45CHL	YEC45CGL	YEC45SLL
50	YEC50WHL	YEC50SBL	YEC50CHL	YEC50CGL	YEC50SLL
55	YEC55WHL	YEC55SBL	YEC55CHL	YEC55CGL	YEC55SLL
60	YEC60WHL	YEC60SBL	YEC60CHL	YEC60CGL	YEC60SLL
65	YEC65WHL	YEC65SBL	YEC65CHL	YEC65CGL	YEC65SLL
70	YEC70WHL	YEC70SBL	YEC70CHL	YEC70CGL	YEC70SLL
75	YEC75WHL	YEC75SBL	YEC75CHL	YEC75CGL	YEC75SLL

Note: For the most up-to-date information on available square drive length and handle finishes, please refer to our website or contact the Yale DWS customer service team.
Please note that a square drive can also be referred to as a spindle.

Yale Quartus Espag Handle

Product Features: Right-Hand Offset

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Part codes and variants

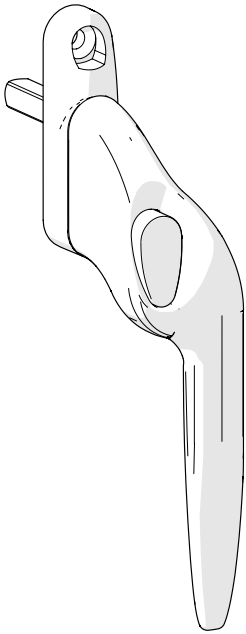
Square Drive Length (mm)	Part Code				
	White	Satin Black	Chrome	Champagne Gold	Silver
10	YBC10WHR	YBC10SBR	YBC10CHR	YBC10CGR	YBC10SLR
15	YBC15WHR	YBC15SBR	YBC15CHR	YBC15CGR	YBC15SLR
20	YBC20WHR	YBC20SBR	YBC20CHR	YBC20CGR	YBC20SLR
25	YBC25WHR	YBC25SBR	YBC25CHR	YBC25CGR	YBC25SLR
30	YBC30WHR	YBC30SBR	YBC30CHR	YBC30CGR	YBC30SLR
35	YBC35WHR	YBC35SBR	YBC35CHR	YBC35CGR	YBC35SLR
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50	YBC50WHR	YBC50SBR	YBC50CHR	YBC50CGR	YBC50SLR
55	YBC55WHR	YBC55SBR	YBC55CHR	YBC55CGR	YBC55SLR
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65	YBC65WHR	YBC65SBR	YBC65CHR	YBC65CGR	YBC65SLR
70	YBC70WHR	YBC70SBR	YBC70CHR	YBC70CGR	YBC70SLR
75	YBC75WHR	YBC75SBR	YBC75CHR	YBC75CGR	YBC75SLR

Note: For the most up-to-date information on available square drive length and handle finishes, please refer to our website or contact the Yale DWS customer service team.
Please note that a square drive can also be referred to as a spindle.

Yale Quartus Espag Handle

Product Features: Right-Hand Offset (Non-Locking)

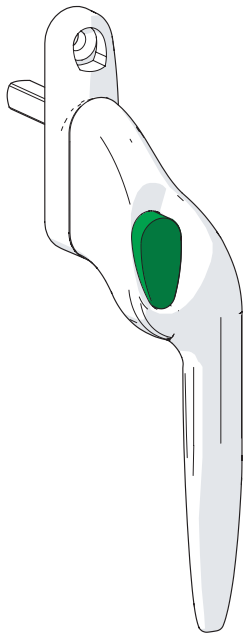
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Part codes and variants

Square Drive Length (mm)	Part Code				
	White	Satin Black	Chrome	Champagne Gold	Silver
10	YC10WHR	YC10SBR	YC10CHR	YC10CGR	YC10SLR
15	YC15WHR	YC15SBR	YC15CHR	YC15CGR	YC15SLR
20	YC20WHR	YC20SBR	YC20CHR	YC20CGR	YC20SLR
25	YC25WHR	YC25SBR	YC25CHR	YC25CGR	YC25SLR
30	YC30WHR	YC30SBR	YC30CHR	YC30CGR	YC30SLR
35	YC35WHR	YC35SBR	YC35CHR	YC35CGR	YC35SLR
40	YC40WHR	YC40SBR	YC40CHR	YC40CGR	YC40SLR
45	YC45WHR	YC45SBR	YC45CHR	YC45CGR	YC45SLR
50	YC50WHR	YC50SBR	YC50CHR	YC50CGR	YC50SLR
55	YC55WHR	YC55SBR	YC55CHR	YC55CGR	YC55SLR
60	YC60WHR	YC60SBR	YC60CHR	YC60CGR	YC60SLR
65	YC65WHR	YC65SBR	YC65CHR	YC65CGR	YC65SLR
70	YC70WHR	YC70SBR	YC70CHR	YC70CGR	YC70SLR
75	YC75WHR	YC75SBR	YC75CHR	YC75CGR	YC75SLR

Note: For the most up-to-date information on available square drive length and handle finishes, please refer to our website or contact the Yale DWS customer service team.
Please note that a square drive can also be referred to as a spindle.



Part codes and variants (Egress/ Fire escape)

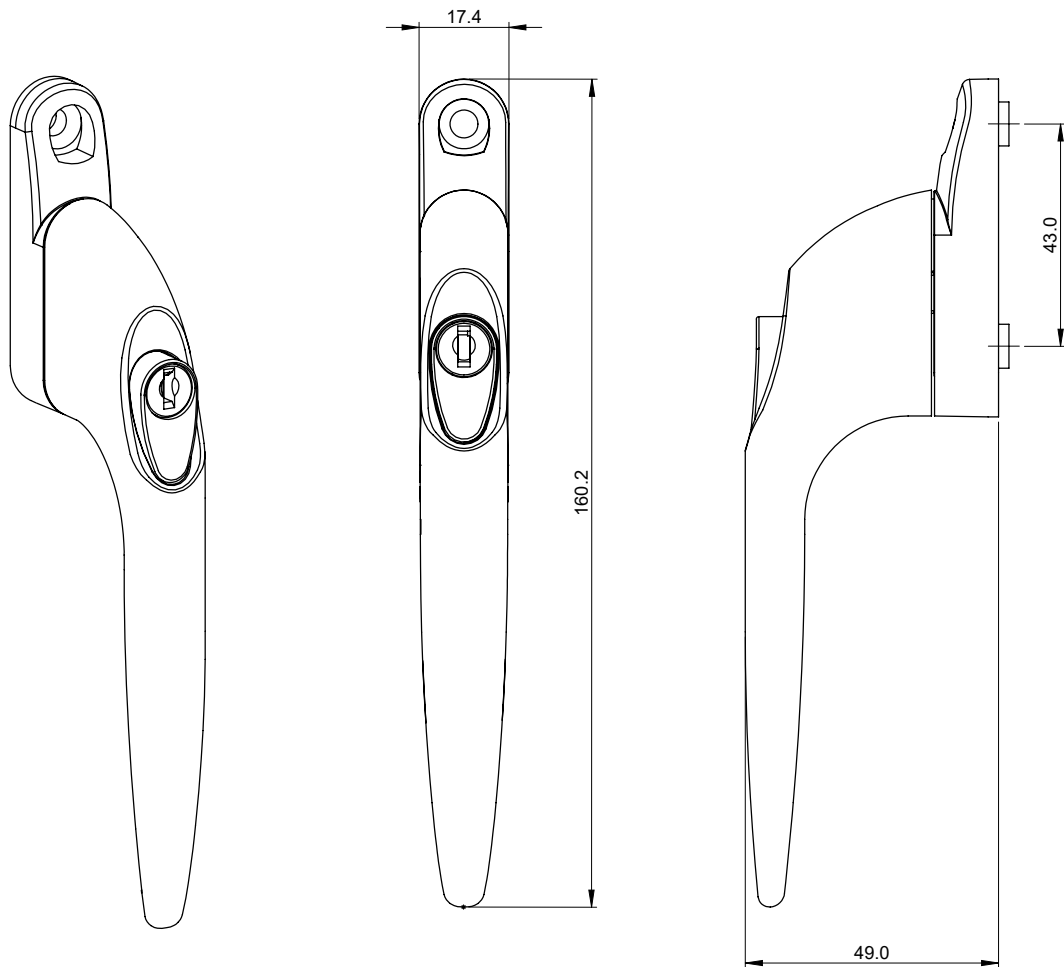
Square Drive Length (mm)	Part Code				
	White	Satin Black	Chrome	Champagne Gold	Silver
10	YEC10WHR	YEC10SBR	YEC10CHR	YEC10CGR	YEC10SLR
15	YEC15WHR	YEC15SBR	YEC15CHR	YEC15CGR	YEC15SLR
20	YEC20WHR	YEC20SBR	YEC20CHR	YEC20CGR	YEC20SLR
25	YEC25WHR	YEC25SBR	YEC25CHR	YEC25CGR	YEC25SLR
30	YEC30WHR	YEC30SBR	YEC30CHR	YEC30CGR	YEC30SLR
35	YEC35WHR	YEC35SBR	YEC35CHR	YEC35CGR	YEC35SLR
40	YEC40WHR	YEC40SBR	YEC40CHR	YEC40CGR	YEC40SLR
45	YEC45WHR	YEC45SBR	YEC45CHR	YEC45CGR	YEC45SLR
50	YEC50WHR	YEC50SBR	YEC50CHR	YEC50CGR	YEC50SLR
55	YEC55WHR	YEC55SBR	YEC55CHR	YEC55CGR	YEC55SLR
60	YEC60WHR	YEC60SBR	YEC60CHR	YEC60CGR	YEC60SLR
65	YEC65WHR	YEC65SBR	YEC65CHR	YEC65CGR	YEC65SLR
70	YEC70WHR	YEC70SBR	YEC70CHR	YEC70CGR	YEC70SLR
75	YEC75WHR	YEC75SBR	YEC75CHR	YEC75CGR	YEC75SLR

Note: For the most up-to-date information on available square drive length and handle finishes, please refer to our website or contact the Yale DWS customer service team.
Please note that a square drive can also be referred to as a spindle.

Yale Quartus Espag Handle

Product Features: Inline

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Part codes and variants

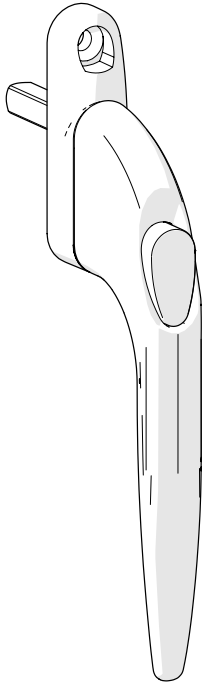
Square Drive Length (mm)	Part Code				
	White	Satin Black	Chrome	Champagne Gold	Silver
10	YBI10WH	YBI10SB	YBI10CH	YBI10CG	YBI10SL
15	YBI15WH	YBI15SB	YBI15CH	YBI15CG	YBI15SL
20	YBI20WH	YBI20SB	YBI20CH	YBI20CG	YBI20SL
25	YBI25WH	YBI25SB	YBI25CH	YBI25CG	YBI25SL
30	YBI30WH	YBI30SB	YBI30CH	YBI30CG	YBI30SL
35	YBI35WH	YBI35SB	YBI35CH	YBI35CG	YBI35SL
40	YBI40WH	YBI40SB	YBI40CH	YBI40CG	YBI40SL
45	YBI45WH	YBI45SB	YBI45CH	YBI45CG	YBI45SL
50	YBI50WH	YBI50SB	YBI50CH	YBI50CG	YBI50SL
55	YBI55WH	YBI55SB	YBI55CH	YBI55CG	YBI55SL
60	YBI60WH	YBI60SB	YBI60CH	YBI60CG	YBI60SL
65	YBI65WH	YBI65SB	YBI65CH	YBI65CG	YBI65SL
70	YBI70WH	YBI70SB	YBI70CH	YBI70CG	YBI70SL
75	YBI75WH	YBI75SB	YBI75CH	YBI75CG	YBI75SL

Note: For the most up-to-date information on available square drive length and handle finishes, please refer to our website or contact the Yale DWS customer service team.
Please note that a square drive can also be referred to as a spindle.

Yale Quartus Espag Handle

Product Features: Inline (Non-Locking)

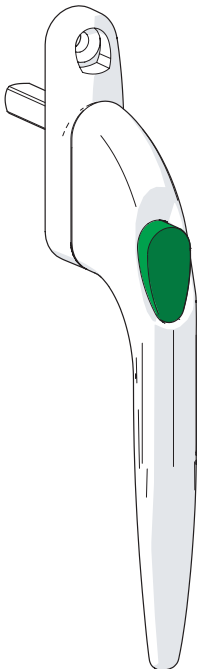
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Part codes and variants

Square Drive Length (mm)	Part Code				
	White	Satin Black	Chrome	Champagne Gold	Silver
10	YI10WH	YI10SB	YI10CH	YI10CG	YI10SL
15	YI15WH	YI15SB	YI15CH	YI15CG	YI15SL
20	YI20WH	YI20SB	YI20CH	YI20CG	YI20SL
25	YI25WH	YI25SB	YI25CH	YI25CG	YI25SL
30	YI30WH	YI30SB	YI30CH	YI30CG	YI30SL
35	YI35WH	YI35SB	YI35CH	YI35CG	YI35SL
40	YI40WH	YI40SB	YI40CH	YI40CG	YI40SL
45	YI45WH	YI45SB	YI45CH	YI45CG	YI45SL
50	YI50WH	YI50SB	YI50CH	YI50CG	YI50SL
55	YI55WH	YI55SB	YI55CH	YI55CG	YI55SL
60	YI60WH	YI60SB	YI60CH	YI60CG	YI60SL
65	YI65WH	YI65SB	YI65CH	YI65CG	YI65SL
70	YI70WH	YI70SB	YI70CH	YI70CG	YI70SL
75	YI75WH	YI75SB	YI75CH	YI75CG	YI75SL

Note: For the most up-to-date information on available square drive length and handle finishes, please refer to our website or contact the Yale DWS customer service team.
Please note that a square drive can also be referred to as a spindle.



Part codes and variants (Egress / Fire escape)

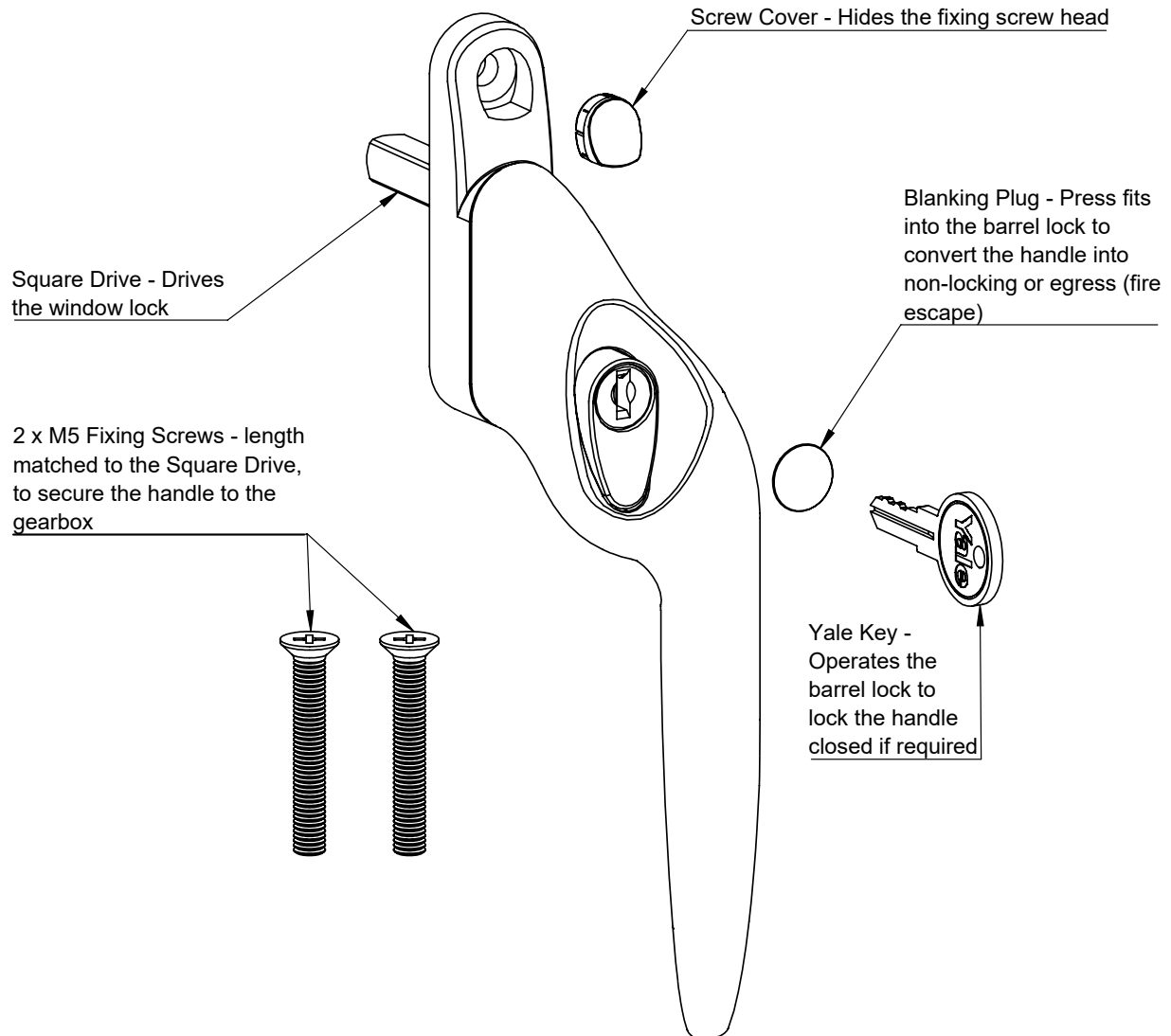
Square Drive Length (mm)	Part Code				
	White	Satin Black	Chrome	Champagne Gold	Silver
10	YEI10WH	YEI10SB	YEI10CH	YEI10CG	YEI10SL
15	YEI15WH	YEI15SB	YEI15CH	YEI15CG	YEI15SL
20	YEI20WH	YEI20SB	YEI20CH	YEI20CG	YEI20SL
25	YEI25WH	YEI25SB	YEI25CH	YEI25CG	YEI25SL
30	YEI30WH	YEI30SB	YEI30CH	YEI30CG	YEI30SL
35	YEI35WH	YEI35SB	YEI35CH	YEI35CG	YEI35SL
40	YEI40WH	YEI40SB	YEI40CH	YEI40CG	YEI40SL
45	YEI45WH	YEI45SB	YEI45CH	YEI45CG	YEI45SL
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55	YEI55WH	YEI55SB	YEI55CH	YEI55CG	YEI55SL
60	YEI60WH	YEI60SB	YEI60CH	YEI60CG	YEI60SL
65	YEI65WH	YEI65SB	YEI65CH	YEI65CG	YEI65SL
70	YEI70WH	YEI70SB	YEI70CH	YEI70CG	YEI70SL
75	YEI75WH	YEI75SB	YEI75CH	YEI75CG	YEI75SL

Note: For the most up-to-date information on available square drive length and handle finishes, please refer to our website or contact the Yale DWS customer service team.
Please note that a square drive can also be referred to as a spindle.

Yale Quartus Espag Handle

Product Features: Ancillaries

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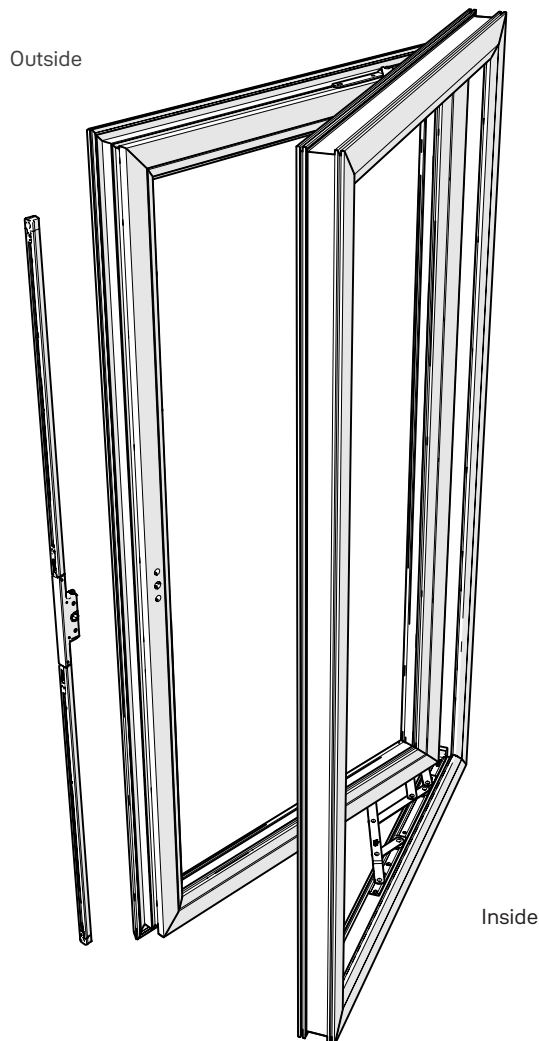
Note: Each handles comes with:

- 1 x push fit colour matched screw cover - spares can be ordered from Yale DWS using part number 0200-019-WH (white) 0200-019-BK (black) 0200-019-CH (chrome) 0200-019-CG (champagne gold) 0200-019-SL (silver)
- 1 x square drive / spindle (the length chosen by the customer and fitted by Yale DWS)
- 1 x Yale key - spares can ordered from Yale DWS using part number R2187
- 2 x blanking plugs (which includes 1 x black/white depending on handle finish, and 1 x green to signify egress fire escape) - spares can be ordered from Yale DWS using part number R2186/1 (white), R2186/3 (black), R2186/4 (green)
- 2 x fixing screws (length matched to square drive / spindle)

Yale Quartus Espag Handle

Installation Instructions: Overview

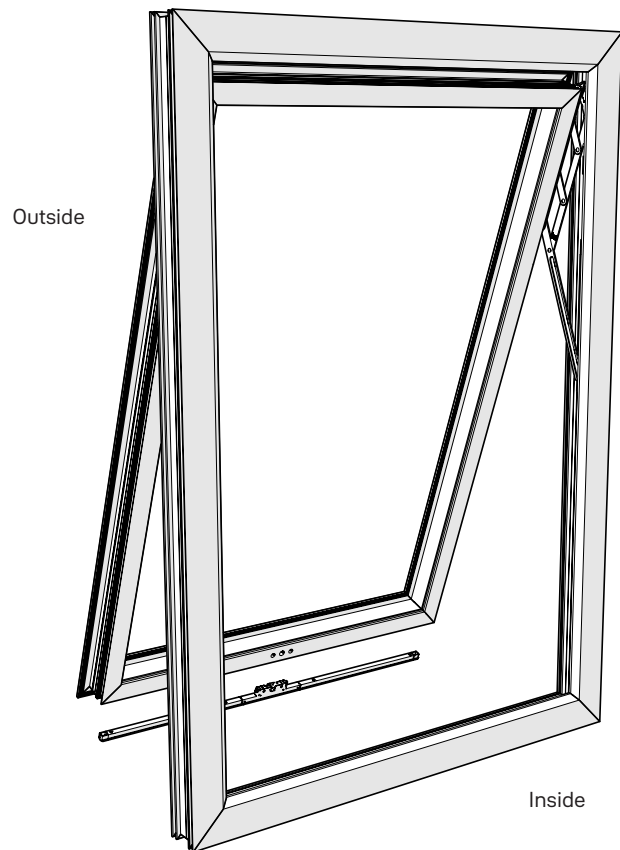
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Side hung window orientation (RH)

The diagram shows a side hung window which is prepared for right hand operation.

- From the inside of the window, the operator will use their right hand to turn the handle 90 degrees counter-clockwise and push open the sash away from them



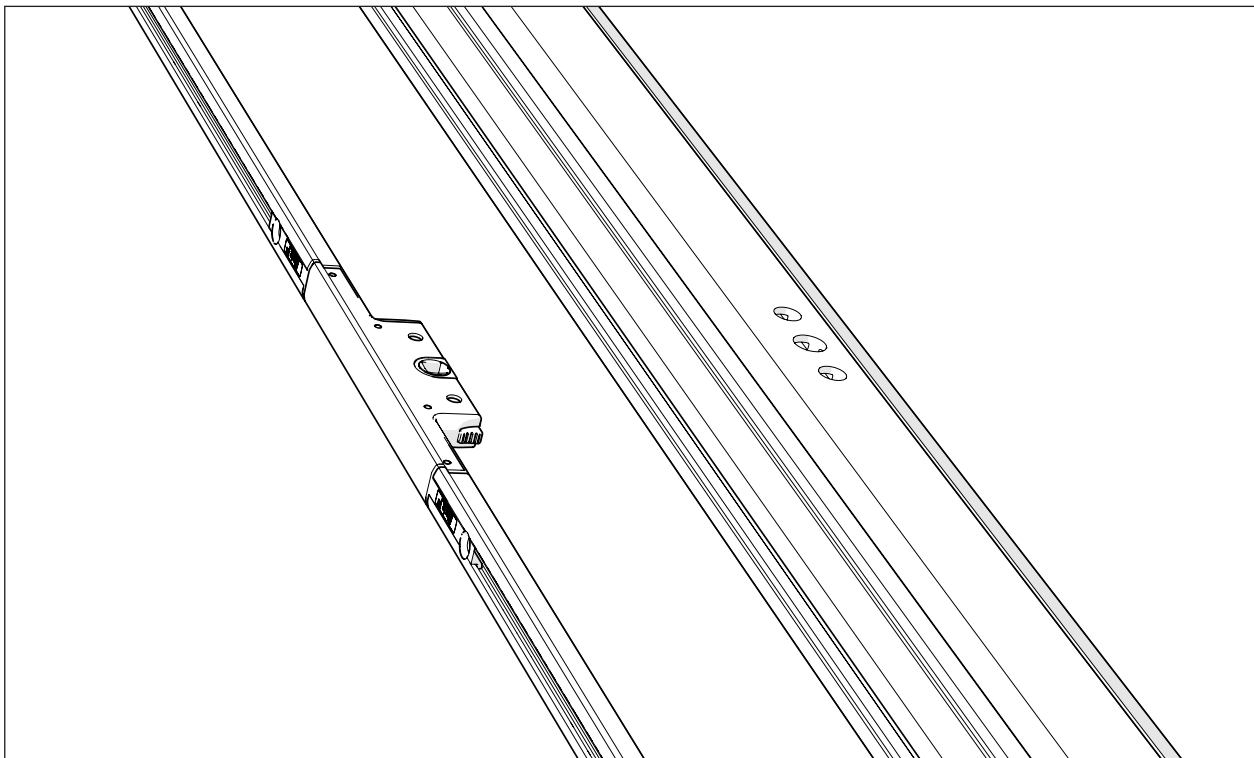
Top hung window orientation

- The diagram shows a top hung window
- From the inside of the window, the operator will use their hand to turn the handle and push open the sash, up and away from them

Yale Quartus Espag Handle

Installation Instructions: Window Sash Preparation

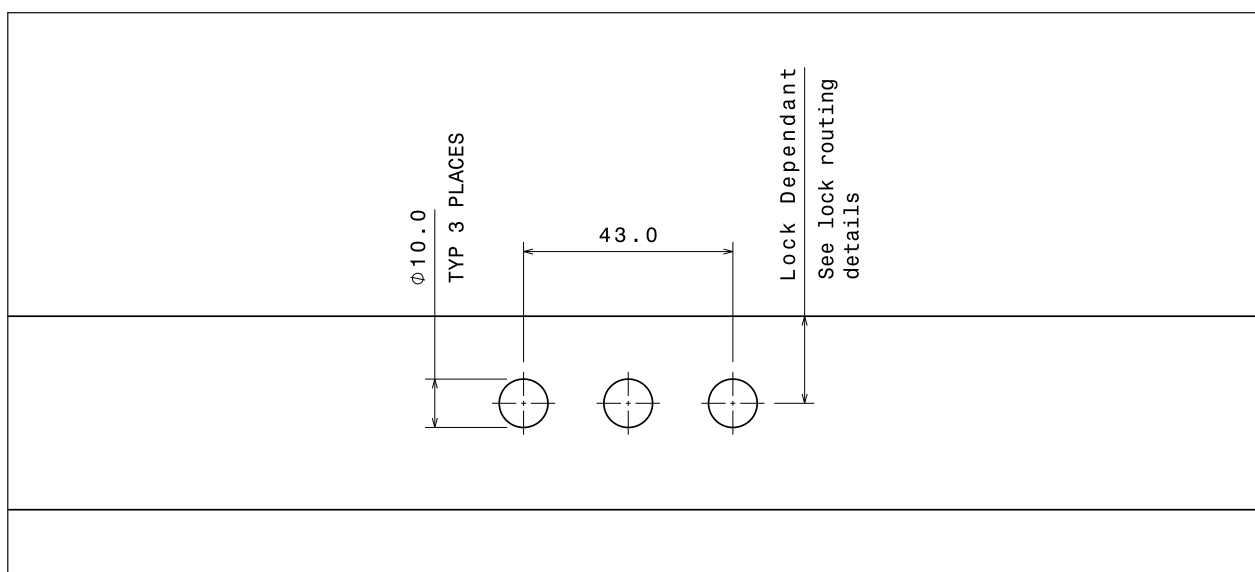
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Sash preparation

- Please note: Sash preparation must be carried out in accordance with the profile manufacturer's recommended instructions.
- The preparation details are specific depending on the window lock type, handing, backset and fixing positions.
- Please refer to the relevant routing detail to determine the required hole sizes and positions to install the handle.

Typical preparation details



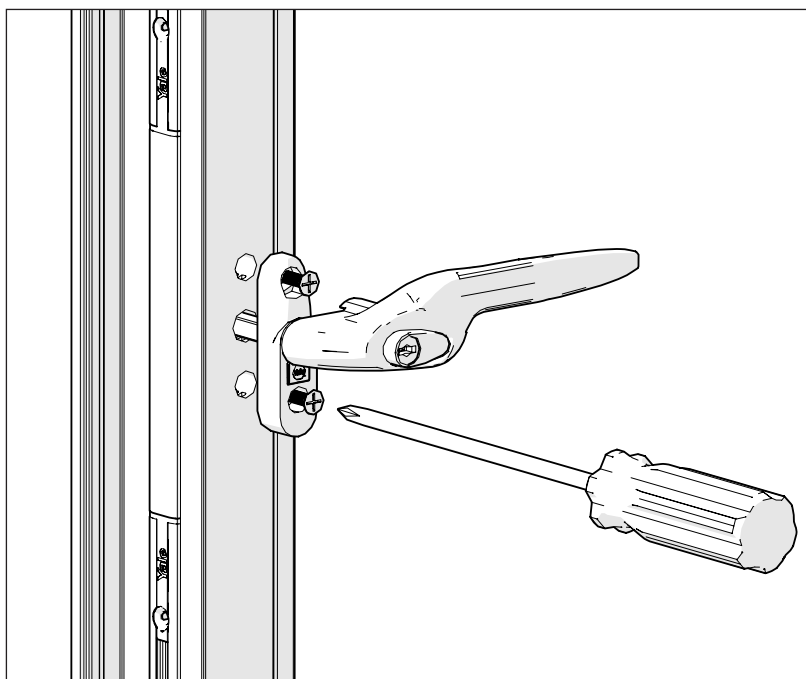
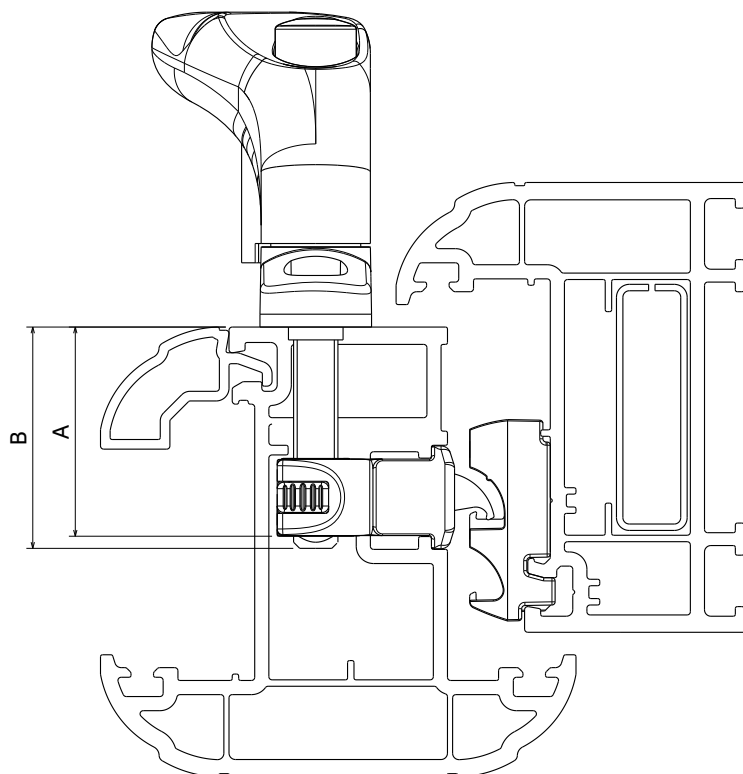
Yale Quartus Espag Handle

Installation Instructions: The Handle & Screws

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Installing the handle

- When installing the handle, you must ensure that the spindle length is equal to or greater than dimension A (the distance from the front surface of the sash to the back face of the lock gearbox assembly).
- We recommend the spindle length is slightly over the required length A, similar to dimension B shown.
- The Yale Quartus Window Handle comes in a series of spindle lengths. If, for example, the length of dimension A is 32.5mm, then we suggest you use the next available length, which would be 35mm.
- When installing the handle you must ensure that the window lock's square drive gear and M5 fixing holes line up concentrically with the pre-drilled holes in the window sash.



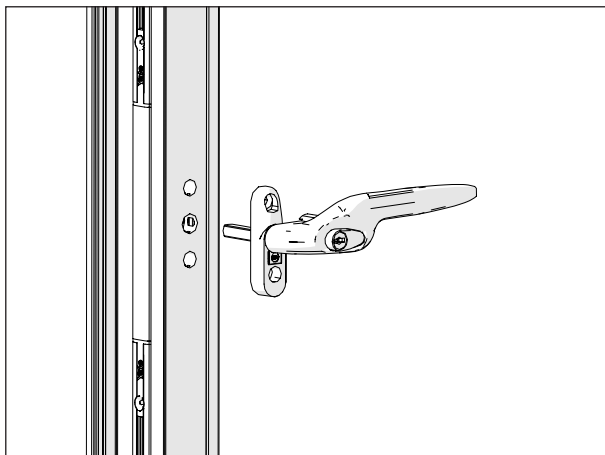
Gearbox screws

- Typically window locks use countersunk M5 screws to fix the handle to the lock.
- Please note: the required length of screw will also be determined by the specific window profile design. The screws must fully engage the entire width of the window lock gearbox.
- We recommend assembly using a manual screw driver as opposed to a power driver, so the threads are not damaged.
- We recommend a maximum torque of 1 Nm to be applied to the screws on installation.
- You must refer to the window lock specific instructions for final recommendations on fixing screws.

Yale Quartus Espag Handle

Installation Instructions

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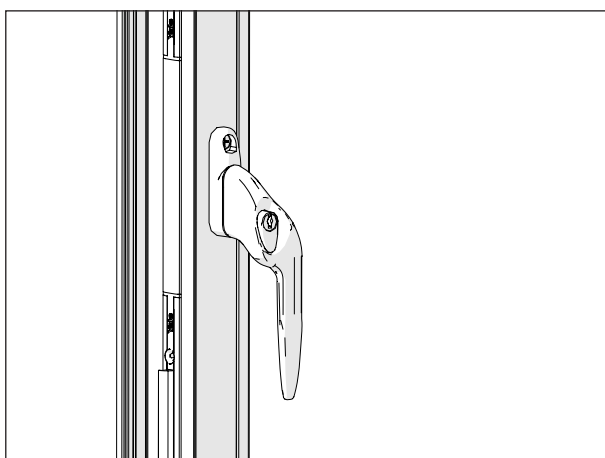
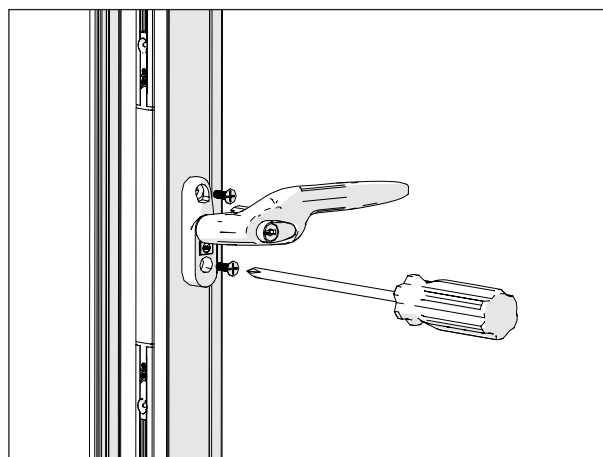


Step 1

- Push the button to disengage the latch and then open the handle fully (approximately 90 degrees) so that the spindle lines up with the window lock square drive gear.
- You should notice the window lock has now moved to its 'unlocked' position.

Step 2

- Insert the handle so the spindle fully engages with the window lock square drive gear and the base sits flush with the surface of the window sash.
- Fix the handle to the lock, via the sash, with M5 countersunk screws.

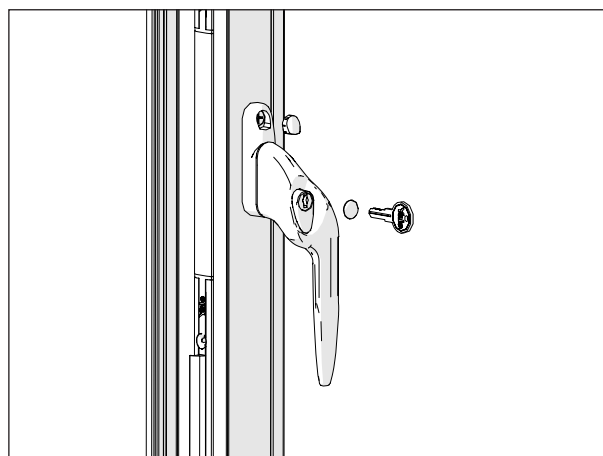


Step 3

- Once the screws are tightened, rotate the handle 90 degrees to the closed position.
- The locking mechanism will then re-engage and there will be an audible clicking noise.
- You should notice the window lock has now moved to its 'locked' position.

Step 4

- At this point you can add the screw cover using a push fit.
- Should you wish to make the handle non-lock or egress (fire escape), simply push fit the appropriate blanking plug into the barrel lock.
- Alternatively maintain the locking function and utilise the Yale key provided.



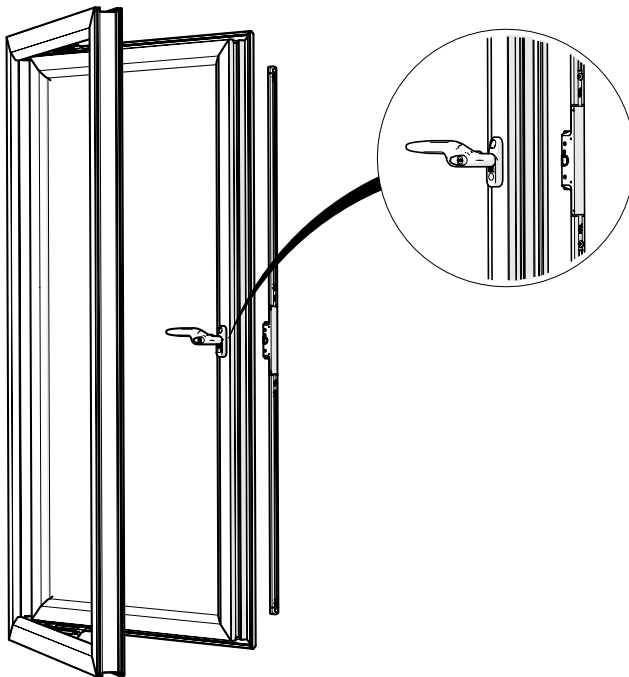
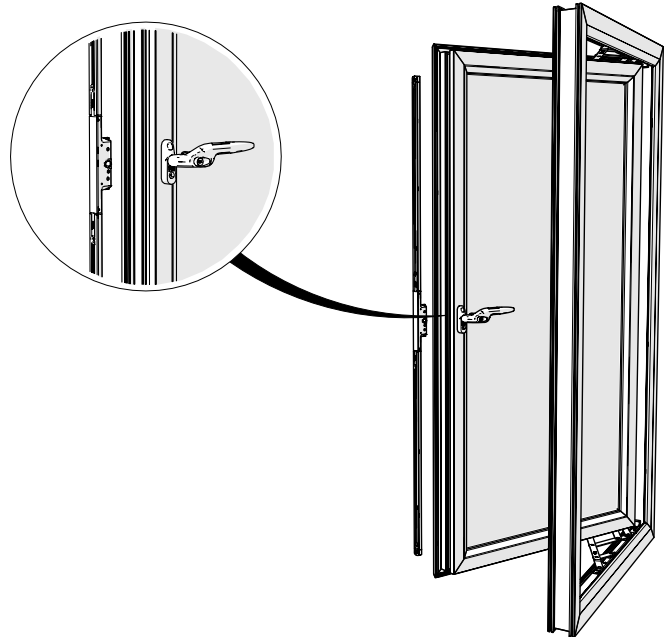
Yale Quartus Espag Handle

Product Operation: Product Handling

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RH - Right handed operation

- A right-handed handle is one which is operated using the right hand. The handle is inline with the window when locked, and the window lock is fully engaged.
- To unlock; push the button and rotate the handle approximately 90 degrees counter-clockwise. At this point the window lock should be fully disengaged.
- Note: Depending on the window profile, the inline handle may also be used. In this instance the angle and direction of rotation remains the same.



LH - Left handed operation

- A left-handed handle is one which is operated using the left hand. The handle is inline with the window when locked, and the window lock is fully engaged.
- To unlock; push the button and rotate the handle approximately 90 degrees clockwise. At this point the window lock should be fully disengaged.
- Note: Depending on the window profile, the inline handle may also be used. In this instance the angle and direction of rotation remains the same.

Inline Handle - Left-handed or Right-handed Operation

- The inline handle can be used in either a left-hand or right-hand operated orientation.
- An inline handle is typically used when cost is an issue, as it gives greater diversity for where it is used.
- Please note: We recommend an inline handle should only be used with certain window profile types, which allow sufficient room between the handle and the window frame for the fingers to grip the handle.

Yale Quartus Espag Handle

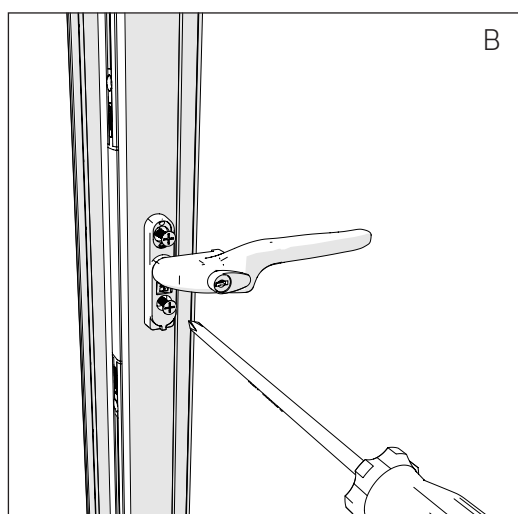
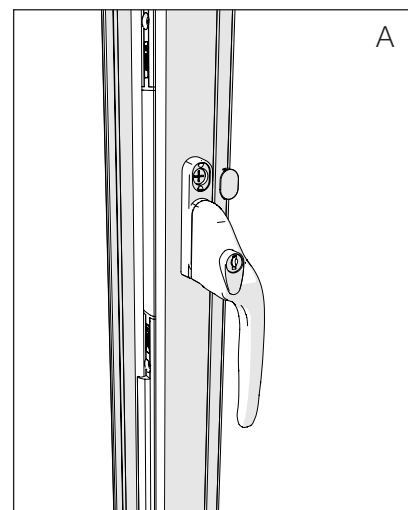
Product Operation: Replacing an Existing Handle

Issue: February 2021

- The following information shows how to replace an existing handle with the Yale Quartus Window Handle.
- It includes steps on how to remove the handle, decide on the correct specification of handle; ie spindle length and handing.

Remove the screw (A)

- Remove the screw cover to expose the fixing screw underneath.
- You may just be able to remove it using your fingers, but if not try using a thin bladed implement to get under the cover and force it out.



Unscrew and remove the old handle (B)

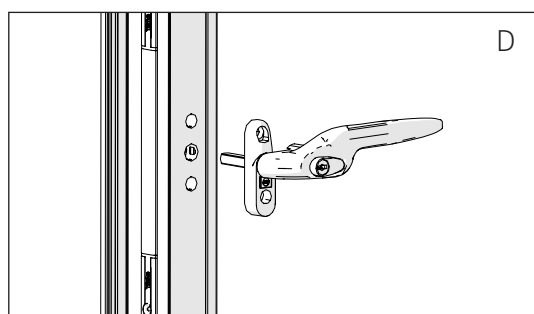
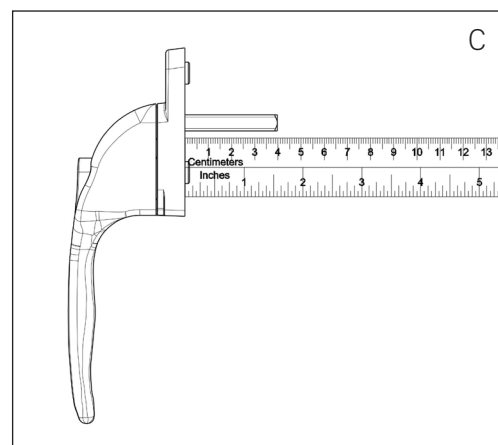
Unscrew the M5 countersunk screws from the handle using a manual screwdriver.

- Make sure you keep the screws as they can be used with the new handle.
- Pull the handle out from the sash.

Measure the correct spindle length (C)

Using a ruler or equivalent, measure the old handle's spindle length so that you know the required length spindle to order for the new handle.

- The correct spindle length is determined by the lock and window profile type, so these should not change unless they are also replaced.



Install the Yale Quartus Window Handle (D)

Now install the correct handle type as per the installation instructions on page 013 of this manual.

Yale Quartus Espag Handle

Specification

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Materials

- Grip (Champagne Gold and Chrome): Material - Die Cast Zinc. Grade Zamak 5.
Finish - Gold plate - hand polished with a Copper Nickel Chrome plate layer with an additional coloured lacquer.
Chrome - hand polished with a Copper Nickel Chrome plate layer. Grip (All other finishes): Material - Die Cast Aluminium.
Finish - Powder Coated finishes (White, Satin Black & Silver) - fine vibrate polishing with powder coat.
- Base (All finishes): Material - Die Cast Zinc. Grade Zamak 5.
Finish - Fine vibrate / hand polishing with either powder coat or colour plated finish.
- Mouldings: Material - Nylon & ABS (screw cover)
- Key: Material - Die Cast Zinc. Grade Zamak 5.
- Square Drive: Material - Mild Steel Bar. Grade 1.0715.
Finish - Bright Zinc and Gold iridescent passivate.

Maintenance and lubrication

- Yale Window Handle comes lubricated for life.
- Ensure the handle is free from any building materials and debris, which could affect the mechanism.
- The handle can be cleaned using detergent liquids or aerosol based cleaners.

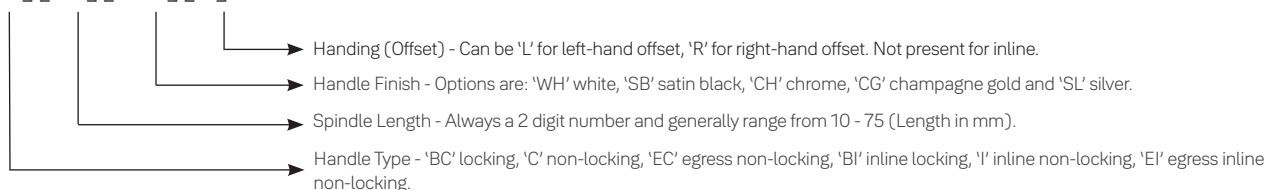
Compatible products

- Yale Rapide Window Lock
- Yale Defender Window Lock
- Yale Shootbolt Lock
- Yale Encloser Lock
- Trojan Mustang Shootbolt & Reverse Espag
- Trojan Stallion 2 Shootbolt & Reverse Espag
- Yale Window Hinge
- Defender Hinge Range
- Yale Fully Reversible Hinge

Determining the Yale Quartus Window Handle Part code

- Each part code contains between 4 pieces of variable information: Handle type, spindle length, handle finish & handing (LH, RH, Inline).

Y[BC][10][WH][R]



Testing and accreditation

- BS EN 13126:2011 Part 1: Building hardware - requirements common to all types of hardware.
- BS EN 13126:2011 Part 3: Handles, primarily for Tilt & Turn, Tilt-First and Turn-Only hardware.

Environmental Constraints

- Normal operating temperature range is -20°C to +60°C.
- Normal operating humidity range is 10% RH to 90% RH.
- Materials used will not degrade, due to ultra violet light or when using neutral acidity non-solvent cleaning chemicals, at a rate faster than other parts of the window assembly.

Recommendations

- Yale Door and Window Solutions recommend that the handle only be fitted to a correctly prepared window. If the preparation results in the handle being unable to fully close, the button mechanism may catch on opening and damage.
- The button must be fully depressed before the handle is twisted open and only released once the locking tail is clear from the base.

THE YALE BRAND, with its unparalleled global reach and range of products, reassures more people in more countries than any other consumer locking solution.

THE ASSA ABLOY GROUP is the world's leading manufacturer and supplier of locking solutions, dedicated to satisfying end-user needs for security, safety and convenience

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DISCLAIMER

It is the responsibility of the user to ensure that this document is at the latest issue. Due to our policy of continual product improvement we reserve the right to alter specifications without notice. It is the responsibility of the window and or door manufacturer to ensure that the finished window and or door meets the required performance and safety specification.