MECHANICAL LOCKSETS

Used and improved in Mental Health units for more than a decade.

SAFEHINGE PRIMERA
LIFESAVING DETAILS

LOCKSETS AND HANDLES

Tried, tested and proven, our locksets are all anti-ligature to keep service users safer. They're intuitive to use, making life easier for staff and ensuring quick operation – especially in stressful situations. Plus they're robust and ideal for retrofitting, keeping maintenance and installation costs to a minimum.

Because it's essential for staff to always have access, we developed the most complete override locking system on an anti-ligature lockset – 5-way SOS (Staff Override System). Our patented mechanisms are designed to overcome barricades of any type – providing peace of mind and saving lives.

INDEPENDENTLY ANTI-LIGATURE TESTED

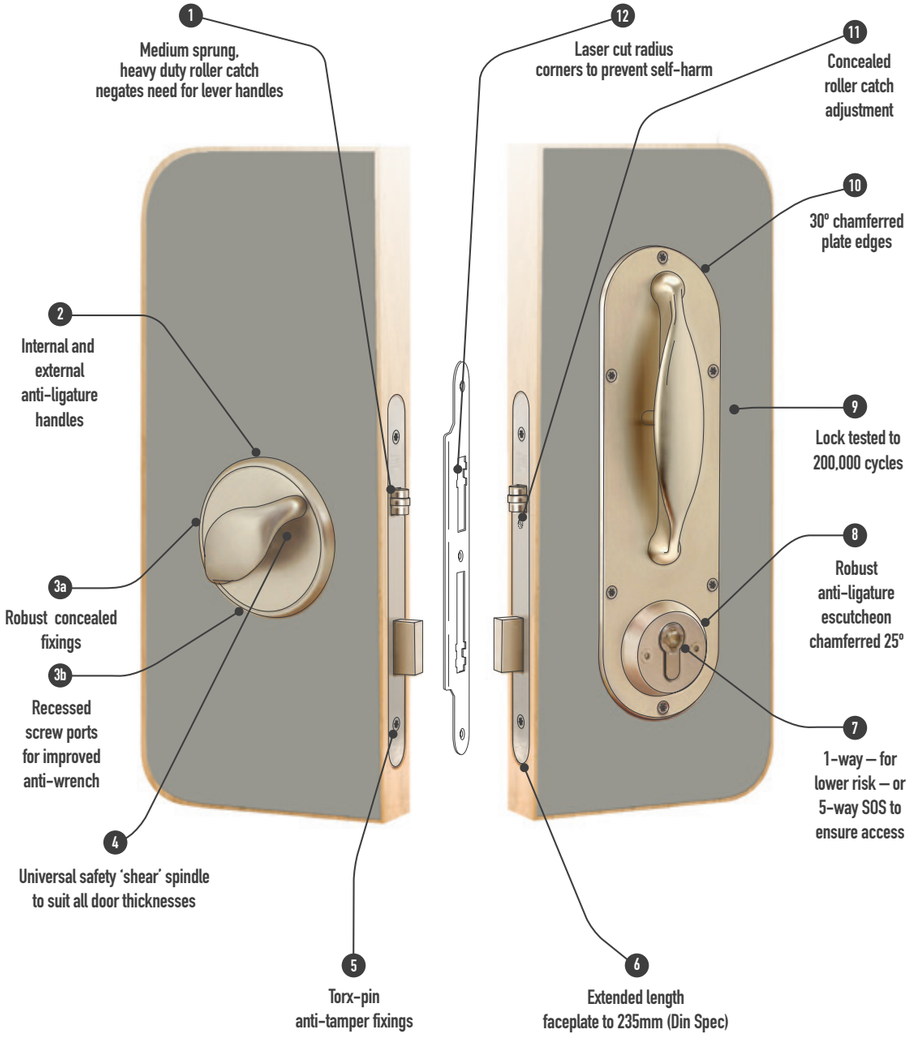
Using the Door & Hardware Federation specification TS001, Exova independently test and classify our locksets as anti-ligature hardware, with all of them passing at the highest level in their respective classifications.

This rigorous, measurable and repeatable testing offers a reliable indicator in any product assessment process.

DESIGNED TO COUNTERACT ANY BARRICADE

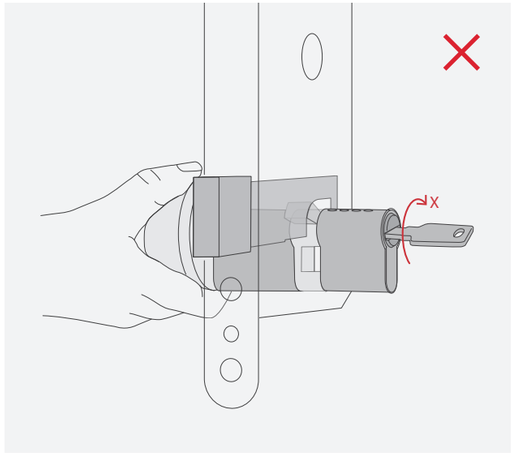
We know that barricades happen. That's why we designed our Staff Override System (SOS), with five override methods. So you can always gain access, even if a service user tampers with the keyway or is holding the internal turn/pull.

LOCKSET SAFETY FEATURES



LIMITATIONS OF EXISTING OVERRIDE SYSTEMS

CLUTCH CYLINDERS

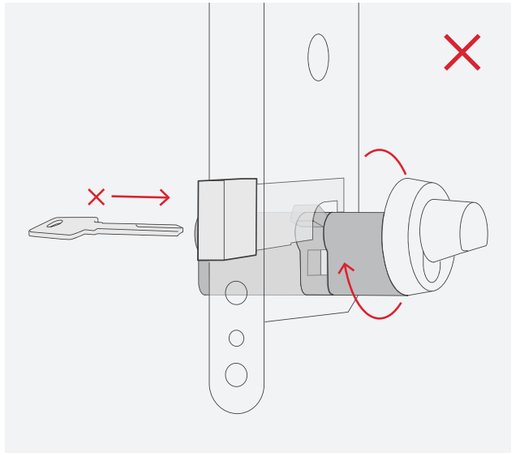


When a service user holds the internal turn/pull to create a barricade, the catch is designed to slip at a higher torque. Operating on a spring and ball-bearing mechanism, the key then turns and unlocks the door.

Over time, however, doors move, expand or distort, limiting clutch effectiveness and making entry times longer in stressful situations.

Wear and tear can also cause the clutch to permanently slip – trapping service users inside and causing distress and fire safety issues.

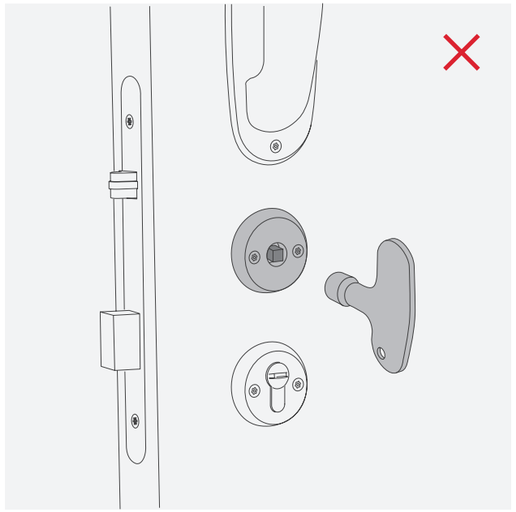
GEARED CYLINDERS



When the key is put into a geared cylinder, it mechanically disengages the internal turn/pull, allowing the door to be opened.

However, service users can easily rotate the turn/pull past its maximum closed position, preventing the key fully engaging. Although the key can eventually be forced home, it can damage the cylinder and the key may snap, causing risk of injury and prolonging the barricade because of a blocked keyway.

Issues also arise in rehabilitation or step-down units, where service users may have their own key. This can be inserted into another service user's lock, disengaging the turn/pull and locking them inside, resulting in anxiety, disruption and fire safety risks.



SQUARE DRIVE OVERRIDE

Square drive mechanisms are sometimes used on anti-barricade locksets to unlock the door when the keyway is blocked. However, the small square drive key doesn't always provide enough turn leverage– allowing a strong service user to prolong a barricade by tightly holding or wedging the turn/pull.

Because the square drive key simply pulls out, it provides no pull advantage or improved grip to open a door outwards.

Plus the insecure square mechanism can easily be rotated – with two spoons, for example – minimising security and creating privacy concerns. Circular shaped mechanisms can reduce this particular risk.

GOODBYE 'PRIMARY' AND 'SECONDARY' OVERRIDE

Barricade override locksets have traditionally been referred to in terms of primary and secondary – but customers tell us they just want to know they can get access when they need it. That's why we've created a complete Staff Override System (SOS) which addresses the limitations of existing override mechanisms. It provides a simple override for day-to-day situations, with the backup of multiple emergency override methods for worst-case scenarios.

INTRODUCING THE STAFF OVERRIDE SYSTEM (SOS)

Our Staff Override System gives staff confidence they can overcome barricades – whether that's a simple barricade where a service users is holding the turn turn/pull, or a more determined attempt.

Available in two versions, 1-way SOS (formally 'primary override') and 5-way SOS (formally 'secondary override'), both use the same patented technology to overcome simple barricades – the key overrides the turn/pull.

OVERRIDE METHODS

1 KEY

With two independent spindles, the lock and the internal turn/pull operate independently, so the key always dominates. It's a direct mechanical override, so there's no geared cylinder to disengage the turn/pull or clutch mechanism involved.

2 KEYWAY

Concealed backup override bypasses the keyway, allowing you to directly turn the spindle and unlock the door if keyway is blocked with foreign objects, like chewing gum or paper.

3 TURN LEVERAGE

T-bar emergency tool provides superior leverage to rotate the turn/pull, even if the service user is stronger.

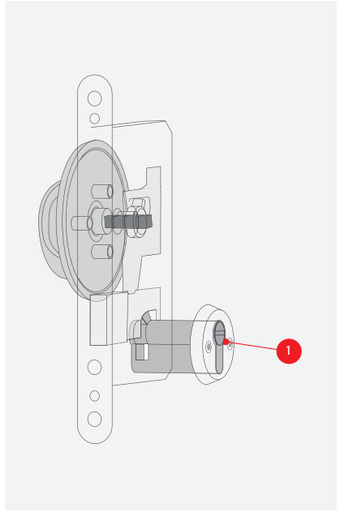
4 SPINDLE

Spindle shears under heavy resistance, ensuring entry if turn/pull is immobilised. So even in the most serious barricade attempts, where the service user attempts to jam the turn/pull with their bed or body, swift access is achieved without lockcase damage.

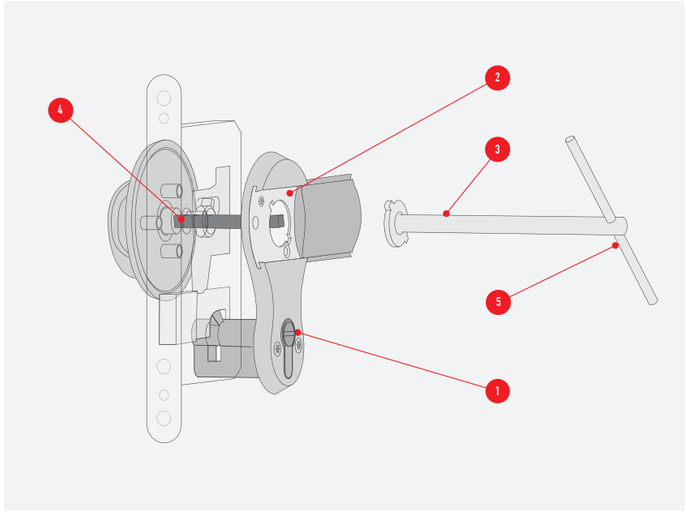
5 PULL ADVANTAGE

T-bar provides significant power advantage to pull the door open – offering better grip than an anti-ligature handle and foiling attempts by a service user to hold the door shut.

1-WAY SOS



5-WAY SOS



LOCKSET OVERRIDE COMPARISON

OVERRIDE METHOD	5-WAY SOS	1-WAY SOS	CLUTCH / GEARED CYLINDER	ROLLER-BOLT (Square override)	AUTO-LOCKING
1 Key	✓	✓	✓-	✓	✓
2 Keyway	✓			✓	✓
3 Turn leverage	✓				✓
4 Spindle	✓				✓
5 Pull advantage	✓				

OVERCOMING SIMPLE BARRICADES

With either our 1-way SOS or 5-way SOS locksets, the majority of barricades are easily resolved by staff operating the lock with their key – ending potentially stressful situations quickly, safely and without damage.

Our patented direct mechanical override system prevents service users from holding the internal turn/pull to create a barricade – because the key always has priority.

Because this turn/pull operates independently from the key, it removes the need for a clutch cylinder, which can slip under side pressure. It also means that a geared cylinder, which can be manipulated by over-rotating the turn/pull, is no longer required.

Modern twin-engined jet planes are meticulously maintained, yet on rare occasions an engine can fail. When that happens, there's always a back-up plan to ensure the plane can land safely using the remaining engine. It's an invaluable alternative that ultimately saves lives.

Our 5-way SOS embodies the same principle. So the various override methods might be rarely used, but if the unthinkable happens, they're still there as back-up. Especially when used with our electronic or Lifeline closed keyway mechanical locks, which minimise tampering to overcome barricade attempts in just two seconds*.

It means that if a determined service user has stopped the key override working, the additional options quickly come into their own – and could be the difference between life and death.

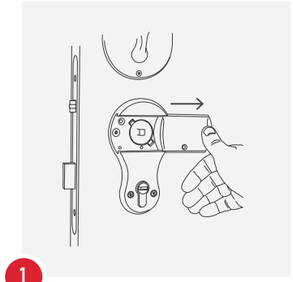
* Using Safehinge Primera's collapsible anti-barricade stop.

OVERCOMING DETERMINED BARRICADES

Designed to provide complete peace of mind, our 5-way SOS locksets provide multiple ways to overcome even the most determined barricade attempt.

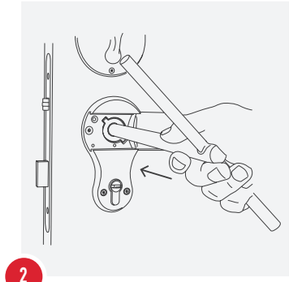
So while these situations are rare, clinical staff know they are properly prepared to keep service users safe in their care.

EMERGENCY OVERRIDE PROCEDURE

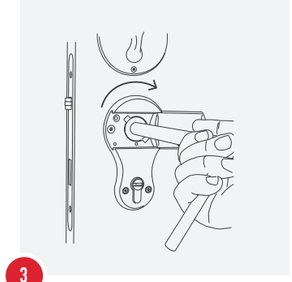


Remove the single anti-tamper screw and slide the cover plate to reveal the spindle.

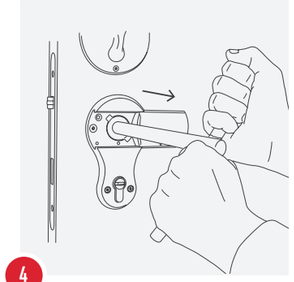
Note: On electronic locks there are two anti-tamper screws.



Slide the emergency tool over the spindle until it stops.



Rotate the emergency tool clockwise to unlock the door.



The T-bar can also be used to pull the door outwards, overcoming resistance by the service user.

EXPLORE THE STAFF OVERRIDE SYSTEM
www.shp.help/sos

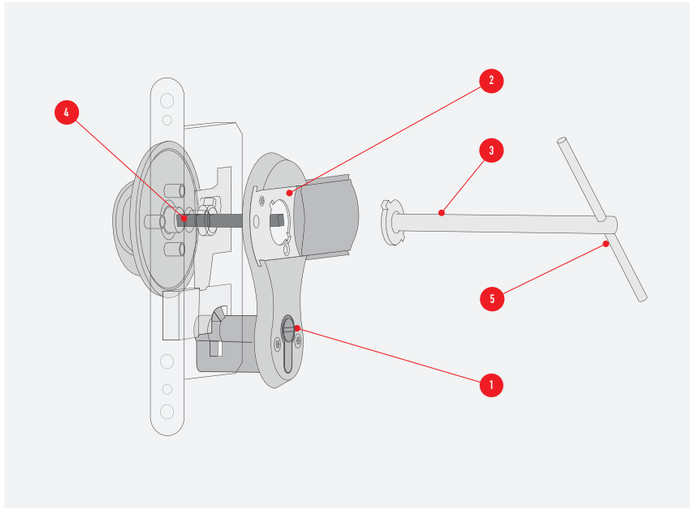
5-WAY SOS (STAFF OVERRIDE SYSTEM) PR-3S

The most complete override locking system on an anti-ligature lockset, our 5-way SOS lockset provides five override methods to ensure you gain access – regardless of keyway damage or tampering.

STANDARD KEYWAY

Ideal for master key systems, 5-way SOS locksets can be provided for use with standard euro-cylinders.

FIVE OVERRIDE METHODS



In the most common barricade scenario, the staff key dominates the internal turn/pull, ending the barricade quickly and simply.

It also contains additional emergency override methods to overcome determined barricades. We hope you rarely use them, but when you do, they might just save a life.

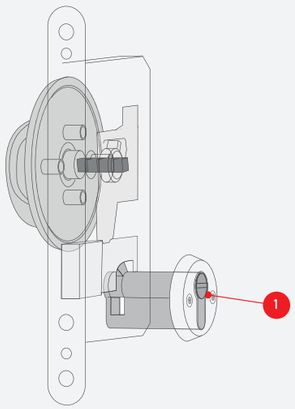
EXPLORE MORE
www.shp.help/mechanical

1-WAY SOS (STAFF OVERRIDE SYSTEM) PR-1

Suitable for low-risk doors where tampering is unlikely, these locksets provide just one override method – key override. The patented direct mechanical override means the key and turn/pull operate independently – allowing staff to unlock the door, even if service user holds the turn/pull.

It addresses the limitations of 'primary' override systems, like clutch cylinders – which are susceptible to wear and tear and can malfunction, trapping service users in their rooms, and geared cylinders – which rely on a key to disengage the internal turn/pull and can be over-rotated to delay access to the room.

ONE KEY OVERRIDE



With two independent spindles, the lock and the internal turn/pull operate independently, so the key always dominates. It's a direct mechanical override, so there's no geared cylinder to disengage the turn/pull or clutch mechanism involved.

CHESHIRE AND WIRRAL PARTNERSHIP NHS FOUNDATION TRUST

Designed by Gilling Dod Architects, Ancora House is an award-winning 30-bed CAMHS unit built round an aluminium curtain wall structure. The en-suite rooms needed simple, practical and safe anti-ligature locksets that were also consistent with window and door handles. The solution was Safehinge Primera's 1-way SOS and standard pull handles. Safehinge Primera locksets and handles were also fitted elsewhere throughout the two-storey facility.

GET IN TOUCH

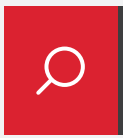
t 0330 058 0988

e info@safehingeprimera.com

w www.safehingeprimera.com

Blackpool office
Unit 8 Bankfield House
250 Bristol Avenue
Blackpool
FY2 0JF

Glasgow office
Level 4
Skypark 3
14 Elliot Place
Glasgow
G3 8EP



VIEW FULL TECHNICAL DETAILS
www.shp.help/tech