Installation &
Operation Instructions

secureseal S
assured security for the logistics industry DATA

Installation and Operating Instructions for :

Secureseal,Secureloc
Secureseal/Secureloc.DATA
Secureseal/Secureloc.DATA with Logger or SealRF

Contents

1. Introduction

Seal Types

These instructions describe the correct positioning and installation of the complete range of Secureseal.

Standard Secureseal

How to use the Instructions

Positioning instructions are common to all models.

Separate installation instructions are provided for each Secureseal model and apply to both Secureseal and Secureloc variants. It is important to establish which type of seal you are installing and refer to the appropriate section of the instructions.

Please be aware that *all* versions carry the words Secureseal.DATA

2. Positioning the Seal -
Standard & Looped Cable assemblies
(for Cable change instructions, refer to Section 8)
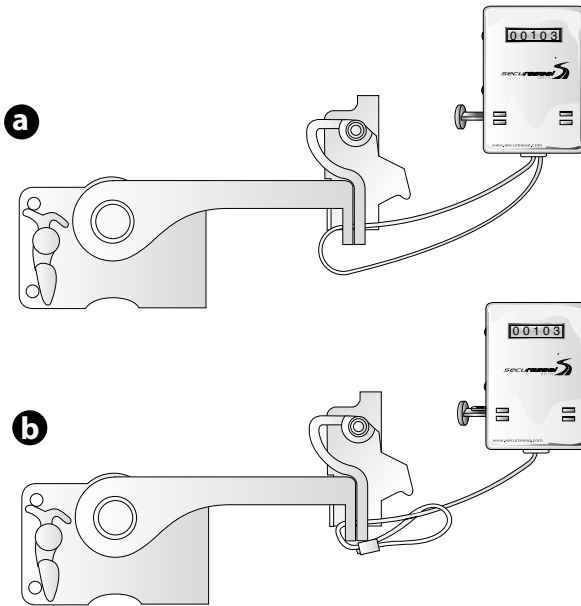
Todco/Henderson type Lock Mechanism

With the Seal Unit open (see Section 7):

2.1a Standard Cable

Thread the free end of the cable assembly through the lock catch,

as shown in diagram (a)

2.1b Looped Cable

Thread the stop-end of the looped cable through the lock catch and then through the

loop at the other end of the cable, as shown in diagram (b)

2.2. Insert the free stop-end of the cable into the plunger and close the seal by pushing the plunger up into the seal unit body until it clicks.

2.3. Move the seal unit within the selected door area so that the cable is tight enough to prevent the door catch being moved enough for the handle to be opened. *Make sure that the seal unit cannot interfere with the proper operation of the lock mechanism or the opening of the door.*

2.4. Mark the position of the seal unit on the door.

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2. Positioning the Seal -Continued
Whiting lever-type Lock Mechanism
With the Seal Unit open (see Section 7):

2.5a Standard Cable
Thread the free end of the cable assembly through the handle locking slot/hole, as shown in diagram (c)

2.5b Looped Cable

Thread the stop-end of the looped cable through the handle locking slot/hole and then through the loop at the other end of the cable, as shown in diagram (d)

2.6. Insert the free stop-end of the cable into the plunger and close the seal by pushing the plunger up into the seal unit body until it clicks.

2.7. Move the seal unit within the selected door area so that the cable is tight enough to prevent the handle being moved enough to open the latch. *Make sure that the seal unit cannot interfere with the proper operation of the latch mechanism or the opening of the door.*

2.8. Mark the position of the seal unit on the door.

2. Positioning the Seal -Continued
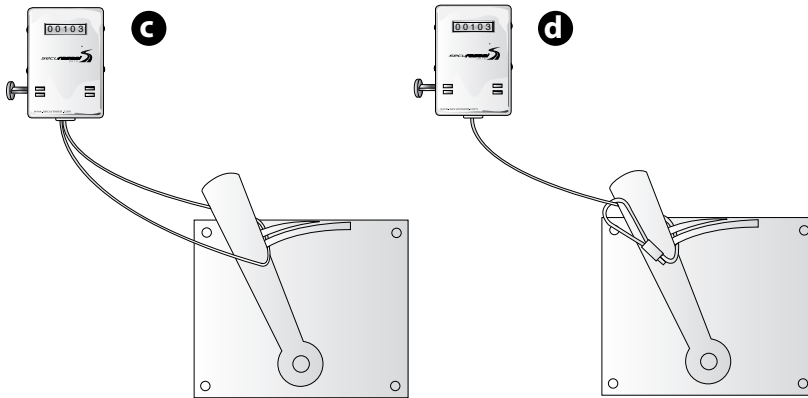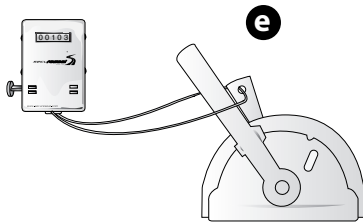
Whiting lever-type Lock Mechanism
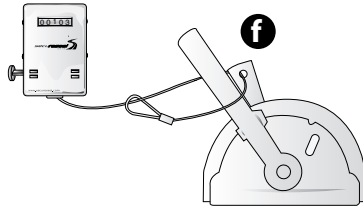With the Seal Unit open (see Section 7):

2.9a Standard Cable
Thread the free end of the cable assembly through the handle locking slot/hole, as shown in diagram (e)

2.9b Looped Cable

Thread the stop-end of the looped cable through the handle locking slot/hole and then through the loop at the other end of the cable, as shown in diagram (f)

2.10. Insert the free stop-end of the cable into the plunger and close the seal by pushing the plunger up into the seal unit body until it clicks.

2.11. Move the seal unit within the selected door area so that the cable is tight enough to prevent the handle being moved enough to open the latch. *Make sure that the seal unit cannot interfere with the proper operation of the latch mechanism or the opening of the door.*

2. Positioning the Seal -Continued
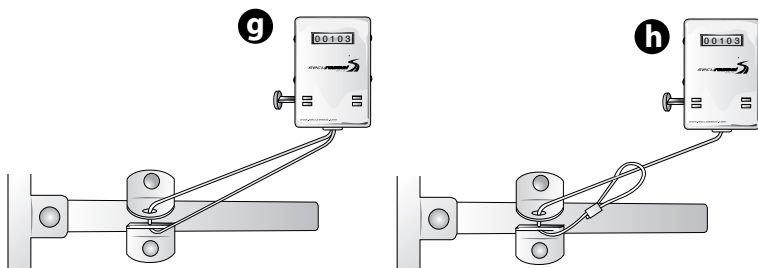
Swing-out type (Barn) door

With the Seal Unit open (see Section 7):

2.12 Standard Cable

Thread the free end of the standard cable through the lock catch as shown in diagram (g)

2.12 Looped Cable

Thread the stop-end of the looped cable through the lock catch and then through
the loop at the other end of the cable, as shown in diagram (h)

2.13. Insert the free stop-end of the cable into the plunger and close the seal by
pushing the plunger up into the seal unit body until it clicks.

2.14. Move the seal unit within the selected door area so that the cable is tight enough
to prevent the door catch being moved enough to allow the door to be opened.
*Make sure that the seal unit cannot interfere with the proper operation of the door catch,
or the opening of the door.*

2.15. Mark the position of the seal unit on the door.

3. Multiple Cable Assemblies

Where it is intended to use multiple cables, e.g. curtain-sided trailers, tanker access covers
and discharge valves, it is recommended that the seal unit is mounted in a convenient
practical location and the cables tailored to fit. Custom-made cables are available
from **OEM Group Limited**. Refer to Section 8 for Cable change instructions.

4. Installing the Seal - *Secureseal, Secureloc*

Components

1. Seal Unit Body
2. Rubber Gasket
3. Fabric Dust Cover
4. Threaded Rod (x4)
5. Flat Washer (x4)

6. Spring Washer (x4)
7. Nut (x4)
8. Plastic Nut Cover (x4)
9. Roll Pin *Part No 'ROLL PIN'*
10. Standard Cable - 750mm (29.5")
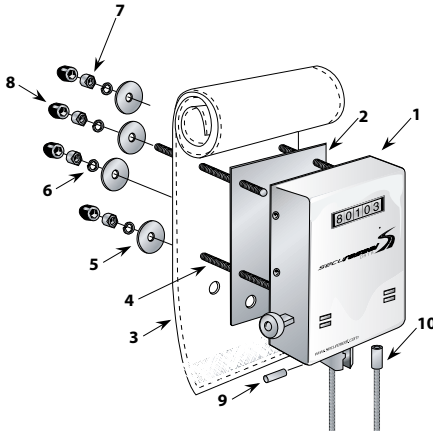
Secureseal shown; Secureloc component and installation identical

4.1. Using the template printed on page 15, place it in the marked position on the door. Mark the position of the four holes 'A'.

4.2. Remove the template and drill four 7mm (9/32") diameter holes through the door. Ensure that the holes are drilled at 90° to avoid difficulty inserting the Threaded Rods.

4.3. Screw the four Threaded Rods (4) into the holes in the back-plate of the Seal Unit Body (1) and tighten. *Do not exceed 5N/m (4ft/lbs) torque*

4.4. Fit the Rubber Gasket (2) over the Threaded Rods.

4.5. Fit the Fabric Dust Cover (3) over the Threaded Rods so that the Velcro fastening faces the Seal Unit and the longest part extends above the Seal Unit body.

4.6. With the plunger of the Seal Unit at the bottom and the Fabric Cover draped forward over the Seal, insert the Threaded Rods through the holes drilled in the door.

4.7. On the inside of the door, fit a Flat Washer (5) onto each Threaded Rod, followed by a Spring Washer (6).

4.8. Screw a Nut (7) onto each Threaded Rod. Tighten down evenly to pull the Seal Unit firmly against the exterior of the door. *Do not exceed 5N/m (4ft/lbs) torque*

**4.9.** Cut off excess Threaded Rod and fit a Plastic Nut Cover (8) over each nut.

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5. Installing the Seal - `Secureseal,Secureloc.-Data`

These units are supplied with a hard plastic wire protector cover
This protects the unused wires and permits easy addittion of a Logger or SealRF, if desired,
in the future. It is recommended that the seal be installed as described below.

Components

1. Seal Unit Body
2. Rubber Gasket
3. Fabric Dust Cover
4. Threaded Rod (x4)
5. *not applicable*
6. Spring Washer (x4)

7. Nut (x4)
8. Plastic Nut Cover (x4)
9. Roll Pin *Part No 'ROLL PIN'*
10. Standard Cable - 750mm (29.5")
11. Wire protector cover
12. Wires
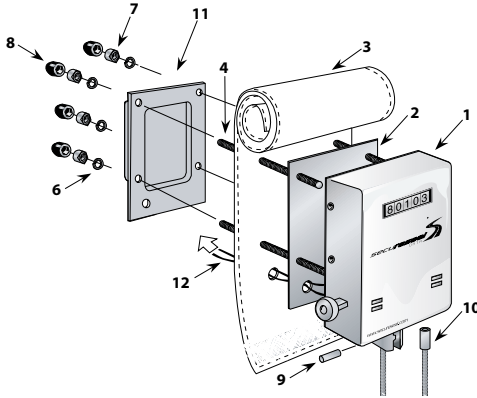
Secureseal shown; Secureloc component and installation identical

5.1. Using the template printed on page15, place it in the marked position on the door so that the fifth, larger hole is at bottom left. Mark the position of the five holes (4 x **A** + 1 x **B**).

5.2. Remove the template and drill four 7mm (9/32") holes and the fifth 8mm (5/16") hole through the door. Ensure that the 7mm holes are drilled at 90° or the Threaded Rods may not align properly on the inside to accept the Wire Protector Cover.

5.3. Screw the four Threaded Rods (4) into the holes in the back-plate of the Seal Unit Body (1) and tighten. *Do not exceed 5N/m (4ft/lbs) torque.*

5.4. Fit the Rubber Gasket (2) over the Threaded Rods and pass the Wires (12) through the fifth hole.

5.5. Fit the Fabric Dust Cover (3) over the Threaded Rods so that the Velcro fastening faces the Seal Unit and the longest part extends above the Seal Unit body. Pass the Wires (12) through the fifth hole.

5.6. With the plunger of the Seal Unit at the bottom and the Fabric Cover draped forward over the Seal, thread the wires (12) through the lower, largest hole in the door and insert the Threaded Rods through the other four holes.

5. Installing the Seal - *Secureseal,Secureloc.Data*

Continued

5.7. On the inside of the door, fit the Wire Protector Cover (11) onto the Threaded Rods so that the logo is the correct way up.
Stow the Wires (12) inside the Wire Protector Cover, making sure they are not trapped.

5.8. Fit a Spring Washer (6) onto each Threaded Rod.

5.9. Screw a Nut (7) onto each Threaded Rod. Tighten down evenly to pull the Seal Unit and the Cover (11) firmly against the surfaces of the door.
*Do not exceed 5N/m (4ft/lbs) torque.*

5.10. Cut off excess Threaded Rod and clean up the ends with a fine file.
Fit a Plastic Nut Cover (8) over each nut.

6. Installing the Seal - *Secureseal,Secureloc.DATA with Logger or SealRF unit.*

Components

1. **Seal Unit Body**
2. **Rubber Gasket**
3. **Fabric Dust Cover**
4. **Threaded Rod (x4)**
5. *not applicable*
6. **Spring Washer (x4)**
7. **Nut (x4)**
8. **Plastic Nut Cover (x4)**

9. **Roll Pin** *Part No 'ROLL PIN'*
10. **Standard Cable - 750mm (29.5")**
11. **Rubber Cover**
12a. **SecureSeal wires**
12b. **Logger or SealRF wires**
13. *not applicable*
14. **Logger or SealRF unit**
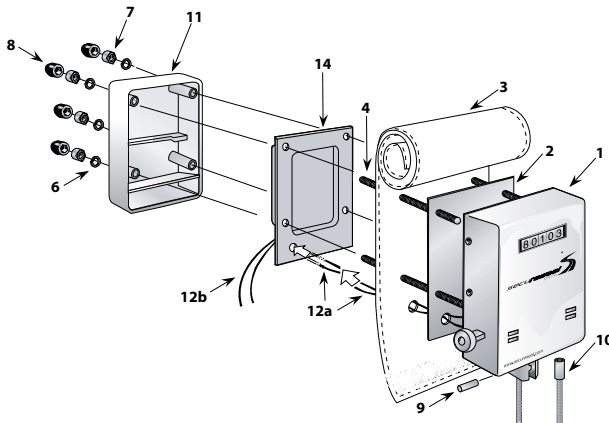
Secureseal shown; Secureloc components and installation identical

6.1. Using the template printed on page 15, place it in the marked position on the door so that the fifth, larger hole is at bottom left. Mark the position of the five holes (4 x **A** + 1 x **B**).

6.2. Remove the template and drill four 7mm (9/32") holes and the fifth 8mm (5/16") hole through the door. Ensure that the 7mm holes are drilled at 90° or the Threaded Rods may not align properly on the inside to accept the Logger or SealRF unit and Rubber Cover.

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6. Continued

6.3. Screw the four Threaded Rods (4) into the holes in the back-plate of the Seal Unit Body (1) and tighten. *Do not exceed 5N/m (4ft/lbs) torque.*

6.4. Fit the Rubber Gasket (2) over the Threaded Rods and pass the SecureSeal wires (12a) through the fifth hole.

6.5. Fit the Fabric Dust Cover (3) over the Threaded Rods so that the Velcro fastening faces the Seal Unit and the longest part extends above the Seal Unit body. Pass the SecureSeal wires (12a) through the fifth hole.

6.6. With the plunger of the Seal Unit at the bottom and the Fabric Cover draped forward over the Seal, thread the SecureSeal wires (12a) through the lower, largest hole in the door and insert the Threaded Rods through the other four holes.

6.7. On the inside of the door, fit the Logger or SealRF unit (14) over the Threaded Rods so that the flat side is towards the door and the larger hole is at bottom right. Pass the SecureSeal wires (12a) through this hole.

6.8. The two un-terminated wires (12b) from the Logger or SealRF unit should be connected to the SecureSeal wires using suitable Connectors

6.9. Fit the RuberCover (11) onto the Threaded Rods so that the logo is the correct way up. Push the Cover home against the Logger or SealRF.

6.10. Fit a Spring Washer (6) onto each Threaded Rod.

6.11. Screw a Nut (7) onto each Threaded Rod. Tighten down evenly to pull the Seal Unit and the Logger or SealRF (14) and the Rubber Cover (11) firmly together against the door. *Do not exceed 5N/m (4ft/lbs) torque.*

6.12. Cut off excess Threaded Rod and clean up the ends with a fine file. Fit a Plastic Nut Cover (8) over each Nut.

7. Operating the Seal

7a Operating Secureseal

7a.1. Open the Seal by pulling out the Slide at the lower left side of the Seal Unit Body. This action will extend the Plunger from the underside of the Seal and scramble the 5-digit number of the display to an unreadable condition.

7a.2. Thread the free end of the cable through the door latch mechanism (Standard Cable) or thread the stop-end of the cable through the door latch mechanism and then through the cable loop (Loop Cable) [Refer to Section 2]

7a.3. Insert the cable stop-end into the Plunger and push the Plunger up into the Seal Unit Body until it clicks. This action will retract the opening Slide and generate a new random number in the 5-digit display. Note this number on the load manifest.
The cable cannot now be released to allow the door latch to be opened without extending the Plunger and scrambling the 5-digit number again.

7b Operating Secureloc

7b.1. Open the Seal by inserting the key into the lock at the lower right front of the Seal Unit Body. The key will only go in one way - smooth side up. Turn the key anti-clockwise through a full 90°. This action will extend the Plunger from the underside of the Seal and scramble the 5-digit number of the display to an unreadable condition. Remove the key.

7b.2. Thread the free end of the cable through the door latch mechanism (Standard Cable) or thread the stop-end of the cable through the door latch mechanism and then through the cable loop (Loop Cable) [Refer to Section 2]

7b.3. Insert the cable stop-end into the Plunger and push the Plunger up into the Seal Unit Body until it clicks. This action locks the Seal Unit and generates a new random number in the 5-digit display. Note this number on the load manifest. It is not necessary to use the key to lock the Seal.
The cable cannot now be released to allow the door latch to be opened without using the key to extend the Plunger and scramble the 5-digit number again.

Lock maintenance

Secureloc is fitted with a quality lock mechanism which has been approved for use with the unit.
For optimum performance, unit should be sprayed with a proprietary lubricant once a month.

8. The Cable Assembly

All versions of Secureseal and Secureloc are supplied with the standard 750mm (29.5")cable already installed. This cable has a stop-end swaged on to each end. One stop-end is permanently held in the seal plunger by a roll-pin. This standard cable may be replaced by a looped-end cable or multiple cables.

8a. To install a looped-end cable
1. Open the seal (see Section 7)
2. Drive out the roll-pin and remove the standard cable.
3. Re-fit the roll-pin, making sure that it does not protrude from the plunger sides.
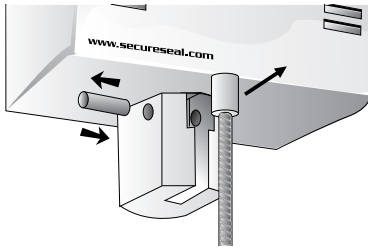
8.b To change to multiple cable application
1. Open the seal (see Section 7)
2. Drive out the roll-pin and remove the standard cable. Discard the roll-pin.
With the roll-pin removed, two cable ends (e.g. TIR cables) can be secured by the plunger.
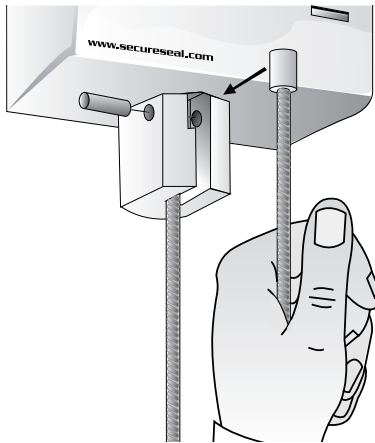
9. Spares and Accessories

Spares

1. **Standard Cable**
750mm Stainless Steel Fixing Cable: Part No.M4280750

2. **Medium Duty Cable**
750mm Stainless Steel Fixing Cable with
machined end : M4280750MD

*** Contact us for special cable length requirements**

3. **Rubber Covers - Protective Back Box**
4. **Dust Flaps - Dust Cover**
5. **Roll Pins**

Accessories

1. **SecureSeal Logger - T-378-521-000**
2. **SealRF - T-328-221-030**
3. **Roll pin punch**

For further information, spare parts and accessories contact :
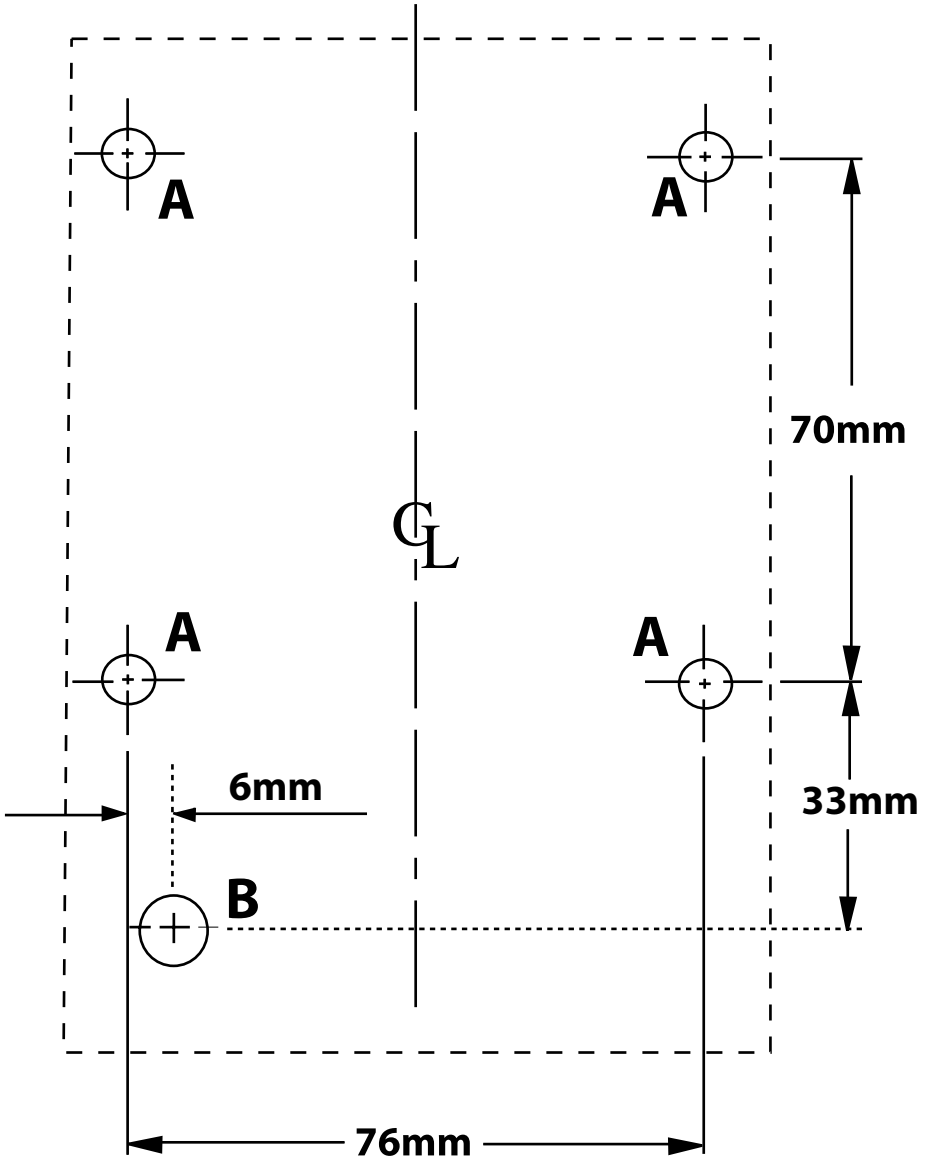
OEM Group
Tel: +44 (0) 208 344 8777 Fax: +44 (0) 208 344 8778 email: sales@secureseal.com

● *Telephone 44 (0)20 8344 8777 for any queries*

10. The Fixing Hole Template

For Secureseal/Secureloc, drill four 7mm (9/32") holes through the door panel at points **A** For DATA versions, drill an additional 8mm (5/16") hole at point **B**

A

A

70mm

C_L

A

A

6mm

33mm

B

76mm

For all enquiries, spare parts and accessories, contact: