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Heavy Duty Lever Latch Series HLL

Latch Body and Function



Series HLL

Heavy Duty Lever Latch
Passage only

Specifications

Field reversible with adjustable bevel
($\frac{1}{8}$ " over 2")

UL and C-UL Listing

File No. R 16617

Backsets

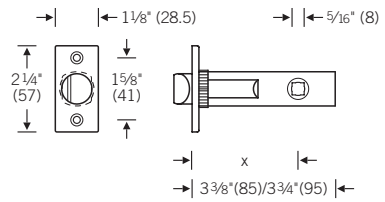
$2\frac{3}{8}$ " (60 mm)

$2\frac{3}{4}$ " (70 mm)

Strike

Universal curved lip T-Strike with dustbox.

Faceplate width $1\frac{1}{8}$ " (25.4 mm) for
minimum $1\frac{3}{4}$ " (44.5 mm) door thickness.



HLL 7010

Passage Latch



Latch bolt by handle either side.

All details subject to modification

Heavy Duty Lever Latch Series HLL

Latch Body and Functions

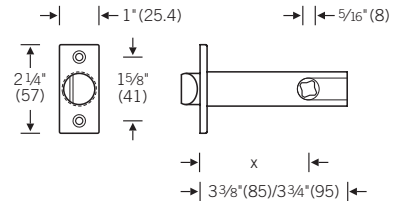


Series HLL

Heavy Duty Lever Latch
Passage and Privacy

Recommended for minimum 1 3/8" (35 mm) door thickness and maximum 2 1/4" (57 mm) door thickness.

1 1/8" (28.5 mm) Faceplate optional.



HLL 7130

Passage Latch

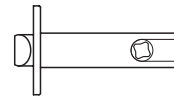
Latch bolt by handle either side.

HLL 7140

Privacy Latch
(when combined with
HLL 7041)



Latch bolt by handle either side.
Outside handle locked by pushbutton
inside. Outside handle unlocked by retracting
inside handle, emergency release tool
or closing the door.
Supplied with 8 mm clover hub as shown.



HLL 7041

Privacy Mechanism

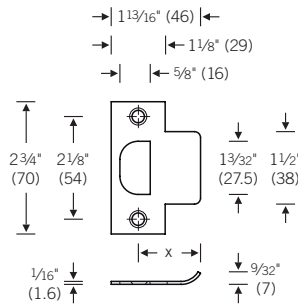


Provides push button locking, emergency
egress and emergency release, when com-
bined with HLL 7140 latch.
For 1 3/8" – 2 1/4" thick doors with 1798 rose.

All details subject to modification

HLL Tubular Latch Parts

Strikes



HLL 1001

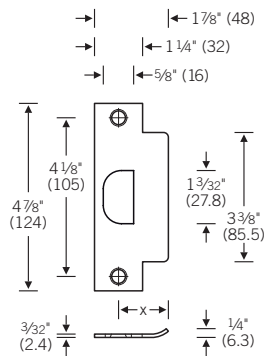
HLL Series Strike with dustbox

Standard **T1** = $1\frac{1}{4}''$

HLL 1001 99

HLL Series Extended Lip* Strike with dustbox

* Identify lip to center (x dimension) and specify tubular strike number



HLL 1002

HLL Series Strike (ANSI/ASA Strike) with dustbox

T14 = $1\frac{1}{4}''$

HLL 1002 99

HLL Series Extended Lip* Strike (ANSI/ASA Strike) with dustbox

* Identify lip to center (x dimension) and specify tubular strike number

Tubular Strike Number	Lip To Center Dimension	Strike Type	Tubular Strike Number	Lip To Center Dimension	Strike Type
T1	$1\frac{1}{4}''$	"T" Curved Lip	T12	1"	ANSI Curved Lip
T2	1"	"T" Curved Lip	T13	$1\frac{1}{8}''$	ANSI Curved Lip
T3	$1\frac{1}{8}''$	"T" Curved Lip	T14	$1\frac{1}{4}''$	ANSI Curved Lip
T4	$1\frac{3}{8}''$	"T" Curved Lip	T15	$1\frac{3}{8}''$	ANSI Curved Lip
T5	$1\frac{1}{2}''$	"T" Curved Lip	T16	$1\frac{1}{2}''$	ANSI Curved Lip
T6	$1\frac{3}{4}''$	"T" Curved Lip	T17	$1\frac{3}{4}''$	ANSI Curved Lip
T7	2"	"T" Curved Lip	T18	2"	ANSI Curved Lip
T8	$2\frac{1}{4}''$	"T" Curved Lip	T19	$2\frac{1}{4}''$	ANSI Curved Lip
T9	$2\frac{1}{2}''$	"T" Curved Lip	T20	$2\frac{1}{2}''$	ANSI Curved Lip
T10	$2\frac{3}{4}''$	"T" Curved Lip	T21	$2\frac{3}{4}''$	ANSI Curved Lip
T11	3"	"T" Curved Lip	T22	3"	ANSI Curved Lip

All details subject to modification

HLL Tubular Latch Parts

Spindles

05 0103

FSB half spindle



05 0103 00808	5/16" × 2 3/16"	(8 × 55 mm)
05 0103 00812	5/16" × 2 9/16"	(8 × 65 mm)
05 0103 00816	5/16" × 2 15/16"	(8 × 75 mm)

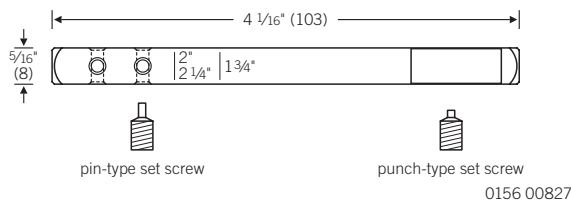
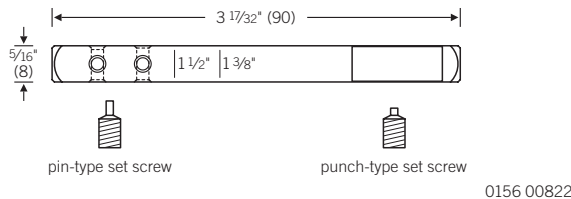
05 0156

FSB straight spindle



Straight spindles available for DT (Door Thickness) up to 3 3/4" (95 mm) on request.

05 0156 0822	5/16" × 3 17/32"	(8 × 90 mm)
05 0156 0827	5/16" × 4 1/16"	(8 × 103 mm)
05 0156 0830	5/16" × 4 11/32"	(8 × 110 mm)
05 0156 0833	5/16" × 4 19/32"	(8 × 117 mm)



Installation Instructions for FSB Straight Spindles (0156)

1. Once the lock or latch has been properly fitted, remove the punch-type set screw from an FSB lever handle, insert the pin end of the FSB straight spindle up to the marking for the appropriate door thickness (DT), replace the set screw with the pin-type set screw provided with the straight spindle and tighten until the head of the set screw is lying flush with the surface of the handle shank.

Note: Ensure that the spring plate is in the same orientation as the initial set screw, facing out toward the leading edge of the door, to receive the opposite lever and punch-type set screw.

2. Firmly insert the FSB lever handle with spindle attached through the hub of the lock.

Thereafter fix the opposite handle over the inside end of the straight spindle while at the same time pressing the already fitted handle against that face of the door. Tighten punch-type set screw until the spring plate is pierced. This screw should now be lying flush with the surface of the handle as shown on the left page.

3. Once the lever handle set has been fitted, test the action several times by opening and closing the door. The lock spring is designed to return the handle to the horizontal position after operation. If the handle works stiffly, the fixing process should be repeated replacing or reversing the spindle's spring plate.

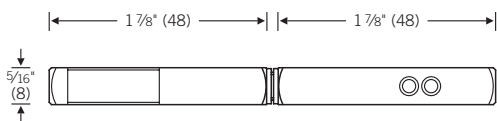
When ordering a standard FSB lockset or latchset, provide the appropriate door thickness to get the correct spindle length. To select the appropriate spindle separately please consult the spindle charts on the next page.

All details subject to modification

HLL Tubular Latch Parts

Spindles

05 0157



0157 01824

FSB swivel spindle for Privacy

Swivel spindles available for DT (Door Thickness) up to 2 1/4" (57 mm).

05 0157 01824 5/16" × 3 25/32" (8 × 96 mm)

05 0157 01834 5/16" × 4 25/32" (8 × 120 mm)

When ordering a standard FSB lockset or latchset, provide the appropriate door thickness to get the correct spindle length. To select the appropriate spindle separately please consult the spindle charts below.

Spindle Reference Guide

For use with 7 mm thick roses 1731, 1758 and 1798

DT	Swivel	Straight	Half
1 3/8"	05 0157 01824	05 0156 00822	05 0103 00808
1 1/2"	05 0157 01824	05 0156 00822	05 0103 00808
1 3/4"	05 0157 01824	05 0156 00827	05 0103 00812
2"	05 0157 01834	05 0156 00827	05 0103 00812
2 1/4"	05 0157 01834	05 0156 00827	05 0103 00812

Instruction for Swivel Spindle 0157 01824 and 0157 01834

1. Spindle Preparation – Ensure that the spring plate and pin holes are facing the door edge and both parts are separated by at least one rotation.

2. Once the latch and privacy mechanism have been properly installed, insert the pin hole side of the spindle through the latch from the outside of the door until the spindle is approximately centered in the latch.

3. Roses or escutcheons are installed next according the instructions for each type.

4. Install the inside handle by sliding the neck of the FSB lever onto the pin hole end of the spindle up to the line indicating the proper door thickness. Insert and tighten the pin type set screw until the head of the set screw is flush with the surface of the lever shank. Push the inside lever firmly against the rose to center the spindle in the latch hub.

5. Place the outside FSB lever onto the other end of the spindle with the spring plate. Press the handles together against the roses on the face of the door. Tighten the pointed set screw until the set screw has pierced the spring plate and the head of the set screw is flush with the lever shank.

6. Once the lever handle set has been fitted, test the action several times by opening and closing the door. The lock spring is designed to return the handle to the horizontal position after operation. If the handle works stiffly or the latch is binding, the fastening process should be repeated and the handles adjusted accordingly.

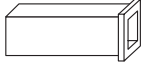
All details subject to modification

HLL Tubular Latch Parts Adaptors

05 0425

Adaptor sleeve

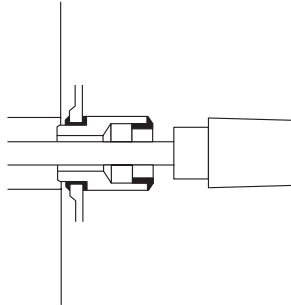
for lever handles spindles/lock follower



- 05 0425 00809 5/16" on 1 1/32" (8 on 9.0 mm)
- 05 0425 00810 5/16" on 1 3/32" (8 on 10.0 mm)
- 05 0425 00885 5/16" on 1 1/32" (8 on 8.5 mm)
- 05 0425 00910 1 1/32" on 1 3/32" (9 on 10.0 mm)

03 0440

Lever handle distance rose to increase the distance between door and lever handle



Aluminum

- 03 0440 00020 2 5/32" (20 mm)
- 03 0440 00025 3 1/32" (25 mm)
- 03 0440 00030 1 3/16" (30 mm)

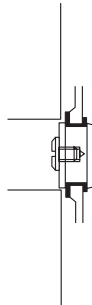
Stainless Steel

- 03 0440 00020 2 5/32" (20 mm)

03 0441

Blind rose

to blank out the lever handle hole on escutcheon plates



All details subject to modification

HLL Tubular Latch Parts

Fasteners

05 0302

Galvanized Steel Lens Head Tapping Screw



05 0302 04240	$\frac{5}{32}$ "	$\times 1\frac{19}{32}$ "	(4.2 × 40 mm)
05 0302 04245	$\frac{5}{32}$ "	$\times 1\frac{25}{32}$ "	(4.2 × 45 mm)
05 0302 04250	$\frac{5}{32}$ "	$\times 1\frac{31}{32}$ "	(4.2 × 50 mm)
05 0302 04255	$\frac{5}{32}$ "	$\times 2\frac{3}{16}$ "	(4.2 × 55 mm)
05 0302 04260	$\frac{5}{32}$ "	$\times 2\frac{3}{8}$ "	(4.2 × 60 mm)
05 0302 04265	$\frac{5}{32}$ "	$\times 2\frac{9}{16}$ "	(4.2 × 65 mm)
05 0302 04270	$\frac{5}{32}$ "	$\times 2\frac{3}{4}$ "	(4.2 × 70 mm)
05 0302 04280	$\frac{5}{32}$ "	$\times 3\frac{5}{32}$ "	(4.2 × 80 mm)

05 0303

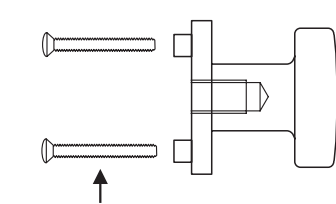
Cross recessed raised countersunk oval head bolt used with narrow style rose 1758.



05 0303 00515	M5	$\frac{3}{16}$ "	$\times 1\frac{9}{32}$ "	(15 mm)
05 0303 00535	M5	$\frac{3}{16}$ "	$\times 1\frac{3}{8}$ "	(35 mm)

05 0308

Cross countersunk head screws for back-to-back fixing knobs (Items-No. 23xx 06), for door thickness up to $1\frac{27}{32}$ " (47 mm).

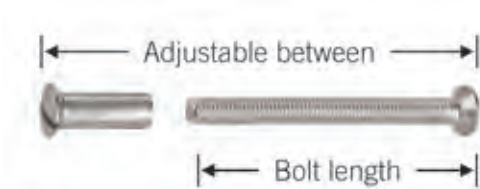


For door thickness

05 0308 00555	M5	$\frac{3}{16}$ "	$\times 2\frac{3}{16}$ "	$1\frac{27}{32}$ " – $2\frac{7}{32}$ "
05 0308 00565	M5	$\frac{3}{16}$ "	$\times 2\frac{9}{16}$ "	$2\frac{1}{4}$ " – $2\frac{19}{32}$ "
05 0308 00575	M5	$\frac{3}{16}$ "	$\times 2\frac{15}{16}$ "	$2\frac{5}{8}$ " – 3"
05 0308 00585	M5	$\frac{3}{16}$ "	$\times 3\frac{11}{32}$ "	$3\frac{1}{32}$ " – $3\frac{3}{8}$ "
05 0308 00595	M5	$\frac{3}{16}$ "	$\times 3\frac{3}{4}$ "	$3\frac{7}{16}$ " – $3\frac{25}{32}$ "
05 0308 00501	M5	$\frac{3}{16}$ "	$\times 4\frac{1}{8}$ "	$3\frac{13}{16}$ " – $4\frac{5}{32}$ "

05 0309

Sex bolts with M4 $\frac{5}{32}$ " threaded sleeve nut 0309



	Bolt length	Adjustable between	For door thickness
05 0309 00435	$1\frac{3}{8}$ " (35 mm)	$1\frac{15}{32}$ " – $1\frac{25}{32}$ "	$3\frac{1}{32}$ " – $1\frac{5}{16}$ "
05 0309 00440	$1\frac{19}{32}$ " (40 mm)	$1\frac{21}{32}$ " – $1\frac{31}{32}$ "	$1\frac{3}{16}$ " – $1\frac{1}{2}$ "
05 0309 00445	$1\frac{25}{32}$ " (45 mm)	$1\frac{27}{32}$ " – $2\frac{3}{16}$ "	$1\frac{3}{8}$ " – $1\frac{11}{16}$ "
05 0309 00450	$1\frac{31}{32}$ " (50 mm)	$2\frac{1}{16}$ " – $2\frac{3}{8}$ "	$1\frac{19}{32}$ " – $1\frac{7}{8}$ "
05 0309 00455	$2\frac{3}{16}$ " (55 mm)	$2\frac{1}{4}$ " – $2\frac{9}{16}$ "	$1\frac{25}{32}$ " – $2\frac{3}{32}$ "
05 0309 00460	$2\frac{3}{8}$ " (60 mm)	$2\frac{7}{16}$ " – $2\frac{3}{4}$ "	$1\frac{31}{32}$ " – $2\frac{9}{32}$ "

All details subject to modification

HLL Tubular Latch Parts

Fasteners, Alignment Tools

05 0315

Cross recessed metal screw

- 03 0315 02916 $\frac{3}{8}'' \times \frac{5}{8}''$ (2.9 × 16 mm)
- 03 0315 03916 $\frac{5}{32}'' \times \frac{5}{8}''$ (3.9 × 16 mm)
- 03 0315 04219 $\frac{5}{32}'' \times \frac{3}{4}''$ (4.2 × 19 mm)



05 0526

Threaded rivets for metal doors

M5 $\frac{3}{16}'' \times \frac{3}{32}''$ (25 mm)

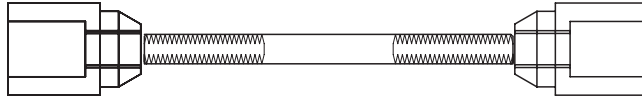
To be used with narrow style rose 1758.



0423 9000

Alignment tool

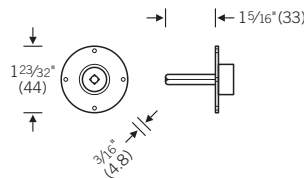
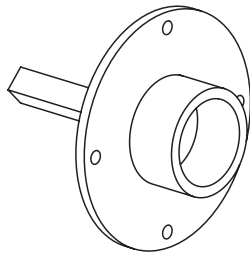
For proper installation of FSB roses.



0423 9001

Alignment tool

To be used with all FSB Thumbturns and Turn and Release Sets which have a $\frac{3}{16}''$ (5 mm) diamond spindle.



Proper alignment of the FSB thumbturn subrose over the hub of the mortise lock or tubular latch is critical. Misalignment of the subrose can result in deadbolt malfunction once the thumbturn is snapped in place. To avoid this issue from occurring, please use the thumbturn alignment tool provided in every appropriate FSB lockset or deadbolt set to mark the locations of the screws before fastening.