

45H/47H mortise locks

Installation Instructions

Tools needed:

Level

Ruler & pencil

Screwdrivers
Phillips #2
Phillips #3
Slotted

Spanner wrench
(Included)

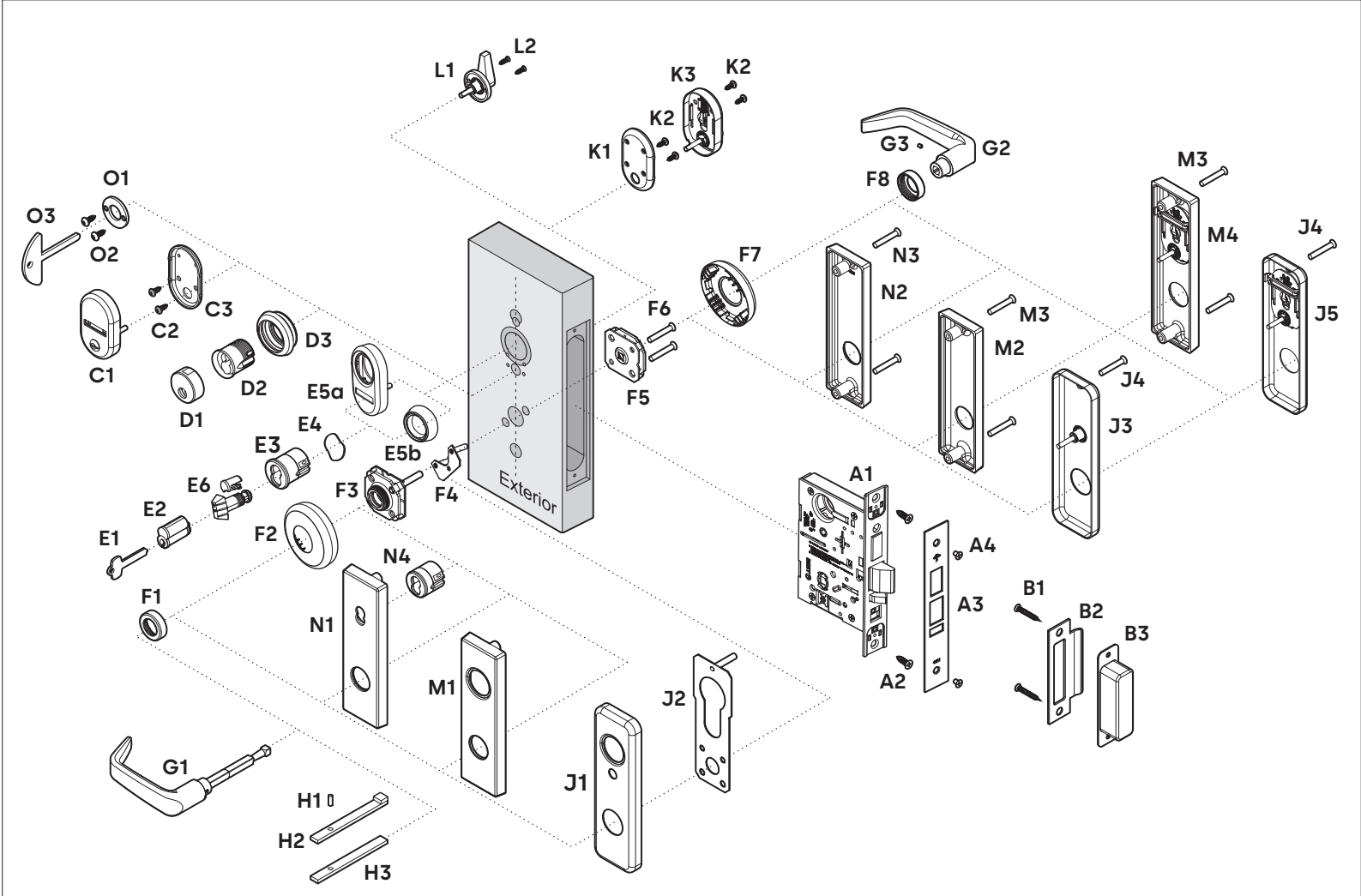
Spanner wrench
(Optional)
Part #: KD316

Hex key
(Included)
1/8"

Cylinder wrench

Overview

Function	Type
A	Office lock
AB	Office lock
AT	Office lock
B	Entrance lock
BA	Entrance lock
BW	Entrance or storeroom lock
D	Storeroom lock
H	Hotel lock indicator
HJ	Hotel lock
R	Classroom lock
RHB	Classroom holdback lock
T	Dormitory lock
TA	Dormitory lock
TD	Dormitory lock
C	Public entrance lock
CHB	Holdback lock
G	Communicating lock
INA	Intruder lock
IND	Intruder lock
INL	Intruder lock
S	Storeroom lock
SV	Security vestibule
W	Storeroom lock
AD	Deadlock lock
RD	Classroom deadlock
WD	Deadlock
YD	Deadlock
L	Privacy lock
LB	Privacy lock
LT	Privacy lock
N	Passage lock
NX	Exit lock
1DT	Single dummy lock
2DT	Double dummy lock
B5	Entrance lock
B7	Entrance lock
XR	Classroom lock-less exterior lever
ZD	Storeroom lock-less interior lever
DEL	Electronically locked-fail safe lock
DEU	Electrically unlocked-fail secure lock
LEL	Electronically locked-fail safe lock
LEU	Electrically unlocked-fail secure lock
NXEL	Electronically locked-fail safe lock
NXEU	Electrically unlocked-fail secure lock
TDEL	Electronically locked-fail safe lock
TDEU	Electrically unlocked-fail secure lock
TWEL	Electronically locked-fail safe lock
TWEU	Electrically unlocked-fail secure lock
WEL	Electronically locked-fail safe lock
WEU	Electrically unlocked-fail secure lock



Part	Description	Part	Description	Part	Description	Part	Description
A1	Mortise lock case	E2	Core	G1	Exterior lever	L1	Thumb turn
A2	Mortise lock screw	E3	Standard cylinder	G2	Interior lever	L2	Thumb turn screw
A3	Faceplate	E4	Cylinder washer	G3	Interior lever set screw	M1	Exterior M trim
A4	Faceplate screw	E5a	Keyed sectional indicator assembly	H1	Pin	M2	Interior M trim
B1	Strike screw	E5b	Cylinder ring	H2	Upper hook spindle	M3	M trim mounting screw
B2	Strike	E6	Temporary core	H3	Lower hook spindle	M4	Interior M trim - visual indicator thumb turn
B3	Strike box	F1	Trim ring	J1	Exterior J trim	N1	Exterior N trim
C1	Coin/emerg. key indicator assembly	F2	Exterior rose with liner	J2	Alignment plate	N2	Interior N trim
C2	Coin/emerg. key indicator screw	F3	Trim cassette	J3	Interior J trim	N3	N trim mounting screw
C3	Coin/emerg. key mounting bracket	F4	Trim plate kit (optional)	J4	J trim mounting screw	N4	Exterior N trim cylinder
D1	High security cylinder faceplate	F5	Interior trim cassette	J5	Interior J trim - visual indicator thumb turn	O1	Emergency access/ Coin turn rose
D2	High security cylinder	F6	Trim cassette screw	K1	Thumbturn indicator mounting bracket	O2	Rose screw
D3	High security cylinder ring	F7	Interior rose with liner	K2	Thumbturn indicator screws	O3	Emergency access key
E1	Control key	F8	Interior trim ring	K3	Thumbtrun indicator assembly		

Installation preparation

1

Rotating shuttle (UNR functions only)

1.1 Rotate shuttle to position according to function.

1.2 Insert a stop screw.

Functions	Install Shuttle Screw Positions	Remove Shuttle Screw Positions
A	0, 2, 4	1, 3, 5, 6
AT, R	0, 5, 6	1, 2, 3, 4
D, NX	3, 5, 6	0, 1, 2, 4
N	1, 5, 6	0, 2, 3, 4

Shuttle

0

Exterior

Interior

LATCHBOLT
LAY BLADE SCHROUWER HERE
JADE TOWARDS CASE FACE
NO LATCHBOLT.
LATCHBOLT AND RELEASE TO RETRACT IT.

1

2

3

4

5

6

2

Rotating latchbolt (if necessary)

NOTE: Person is shown on door's exterior.

Left-hand

OR

Right-hand reverse

Right-hand

OR

Left-hand reverse

180°

180°

3

Positioning hub toggles (if necessary)

NOTE: Ensure mortise is locked before adjusting hub toggles as shown in table.

Setting hub toggles incorrectly can trap people in room.

Up

Middle

Lockable

Unlocked

Function	Type
A, AB, AT, BA, C CHB, D, H, HJ, IND, INL, L, LT, NX, R, RHB, S, T, TA, TD, X, XR, ZD	Exterior: Up (lockable) Interior: Middle (always unlocked)
B, BW, B5, B7, G, LB, W	Both Up
N	Both Middle

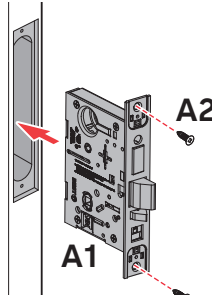
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1/2

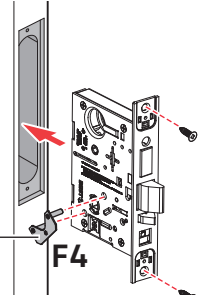
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4 Installing mortise case and trim cassettes

4.1 Insert mortise case into pocket of door and secure using mortise lock screws.

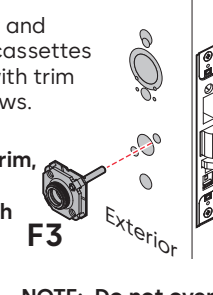


NOTE: For single-sided trim, install optional trim plate before inserting case body in door.



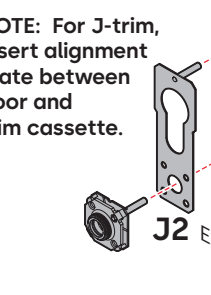
4.2 Install interior and exterior trim cassettes and tighten with trim cassette screws.

NOTE: For single-sided trim, use screws packaged with optional trim plate kit.



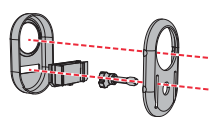
NOTE: Do not overtighten.

NOTE: For J-trim, insert alignment plate between door and trim cassette.



5 Installing trim

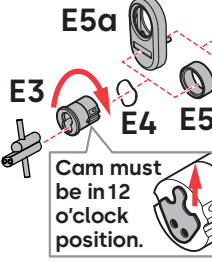
Sectional trim



NOTE: Refer to image above if VIN needs to be reassembled.

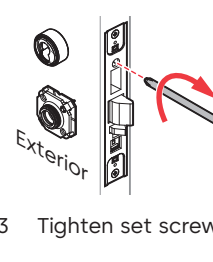
5.1 Insert cylinder washer and washer ring into door.
NOTE: Add sectional indicator to the door if supplied.

5.2 Screw cylinder into washer using cylinder wrench.



NOTE: Cam must be in 12 o'clock position.

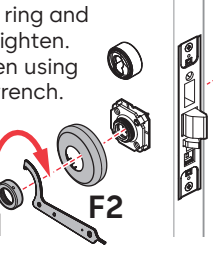
5.3 Tighten set screw.



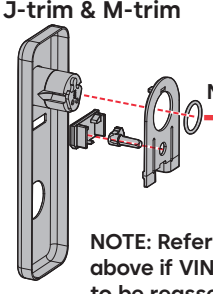
5.4 Place rose rings on trim cassettes.

5.5 Insert trim ring and rotate to tighten.

5.6 Fully tighten using spanner wrench.



J-trim & M-trim



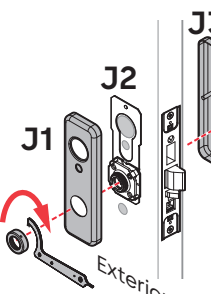
NOTE: O-ring aids installation – Do not remove.

NOTE: Refer to image above if VIN needs to be reassembled.

5.1 Place interior and exterior trim and secure with mounting screw. For M-trim, there will be an additional mounting screw needed on bottom of trim plate.
NOTE: The mounting screws are placed into interior side of door.

5.2 Place trim ring into lower trim hole and rotate to tighten.

5.3 Fully tighten using spanner wrench.

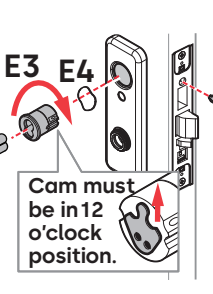


NOTE: For trim with thumb turn, ensure thumb turn is pointed upwards when installing.

5.4 Insert cylinder washer and ring into door.

5.5 Tighten using cylinder wrench.

5.6 Tighten set screw using screwdriver once cylinder is in place.



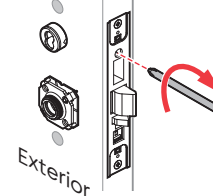
NOTE: Cam must be in 12 o'clock position.

N-trim

5.1 Insert cylinder into door and rotate to secure.



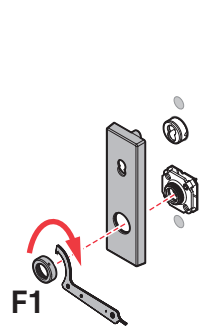
5.2 Tighten set screw.



5.3 Place interior and exterior trim and secure with mounting screws.

5.4 Place trim ring into lower trim hole and rotate to tighten.

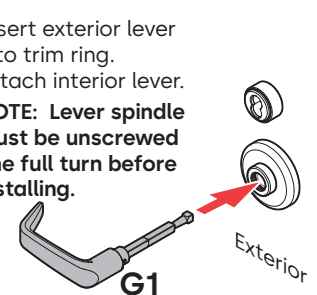
5.5 Fully tighten using spanner wrench.



6 Installing lever

6.1 Insert exterior lever into trim ring.

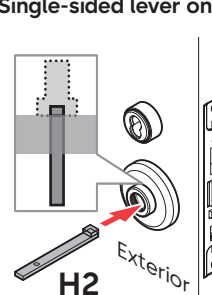
6.2 Attach interior lever.
NOTE: Lever spindle must be unscrewed one full turn before installing.



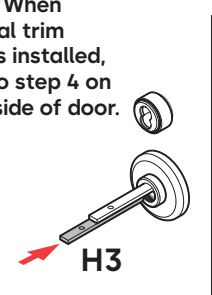
6.3 Tighten interior lever set screw using hex key.



Single-sided lever only



NOTE: When optional trim plate is installed, refer to step 4 on other side of door.



NOTE: Hook spindle can be installed on either side of door, but only interior lever can be used.

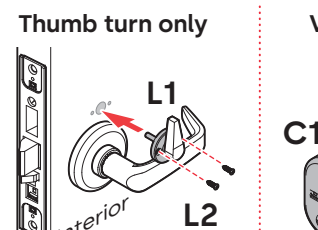


7 Installing access trim components

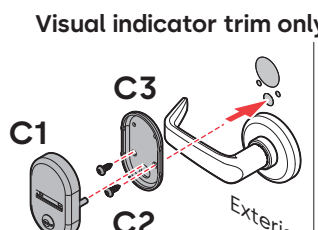
Emergency access key/ Coin turn only



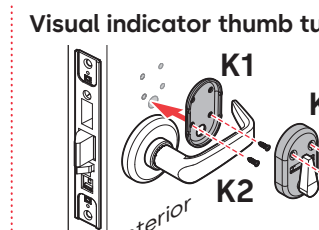
Thumb turn only



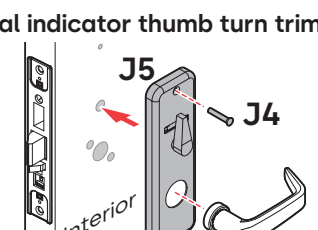
Visual indicator trim only



Visual indicator thumb turn only



Visual indicator thumb turn trim only

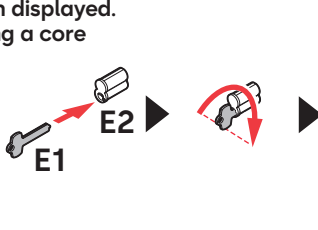


8 Installing core

NOTE: Sectional trim displayed. All functions requiring a core follow these steps.

8.1 Insert control key and turn clockwise to deactivate control lug.

8.2 Insert core into cylinder.

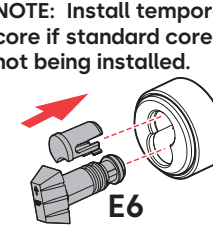


NOTE: Cam must be in 12 o'clock position.

8.3 Activate control lug by turning control key counterclockwise.

8.4 Remove control key.

8.5 Tighten set screw to secure cylinder.

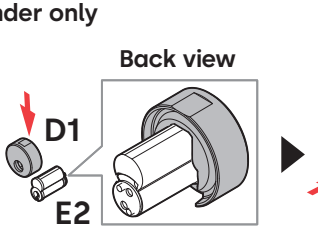


NOTE: Install temporary core if standard core is not being installed.

High-security cylinder only

8.1 Insert core into high-security faceplate.

8.2 Insert control key and turn clockwise to deactivate control lug.

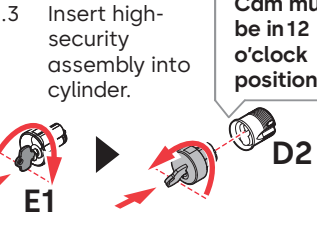


NOTE: Cam must be in 12 o'clock position.

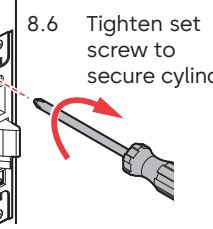
8.3 Insert high-security assembly into cylinder.

8.4 Insert high-security ring into door.

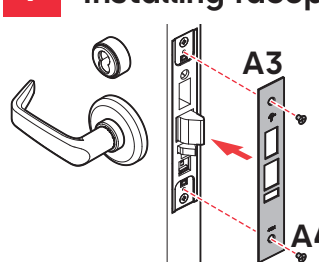
8.5 Rotate cylinder assembly to thread into ring.



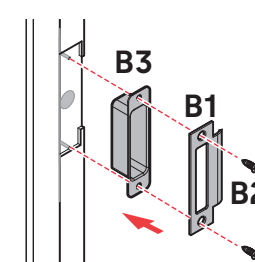
8.6 Tighten set screw to secure cylinder.



9 Installing faceplate and strike



NOTE: Most locks ship with only one faceplate. UNAB (universal AB functions) and UNR (universal R function) locks ship with two faceplates. For AB (UNAB) and A (UNR) function locks, use faceplate that exposes locking toggle.



10 Checking operation

- Door latches and opens properly.
- Deadbolt latches properly.
- Visual indicator and thumb turn operate properly.
- Key access works.
- Door gap is 1/8" (32 mm)
- Auxiliary bolt is held inside case when door is closed.



Document translations available. Scan for product details and downloads. Call 1-800-392-5209 or visit dhwsupport.dormakaba.com/hc/en-us for assistance and warranty information.

WARNING! This Manufacturer advises that no lock can provide complete security by itself. This lock may be defeated by forcible or technical means or evaded by entry elsewhere on the property. No lock can substitute for caution, awareness of your environment, and common sense. Builder's hardware is available in multiple performance grades to suit the application. In order to enhance security and reduce risk, you should consult a qualified locksmith or other security professional.