

# TM-Series Timing Guide

IMPORTANT : DO NOT insert Key in outside cylinder (if applicable) before or during these steps!

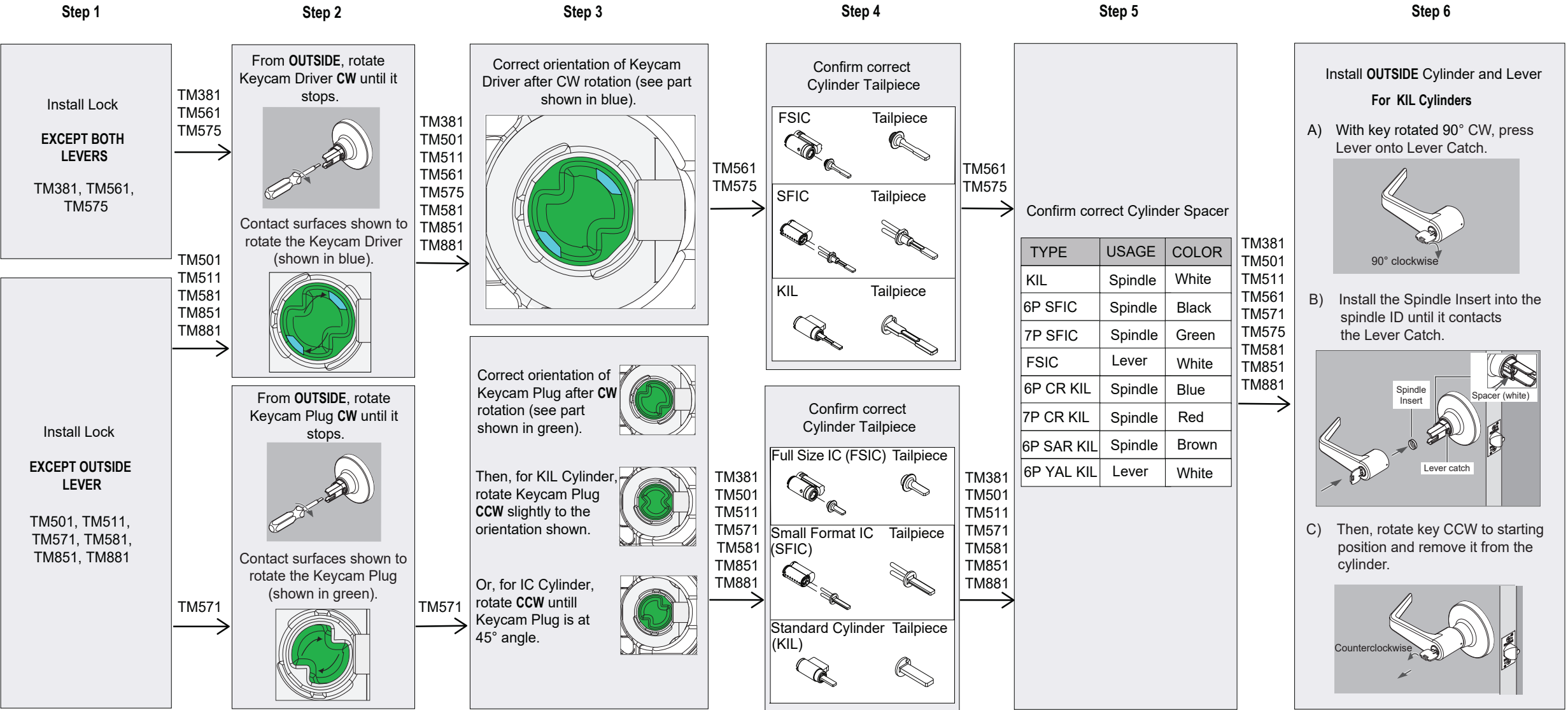
**NOTICE**  
FAILURE TO PROPERLY TIME THE LOCK WILL RESULT IN IMPROPER FUNCTION, AND CAN CAUSE DAMAGE TO THE LOCK

Tools Needed



**FALCON**®

## STEPS 1 - 6 ARE FOR OUTSIDE TIMING. IF OUTSIDE CYLINDER IS ALREADY INSTALLED, SKIP TO NEXT PAGE.

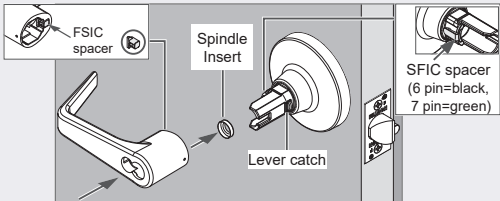


Step 6 (contituned)

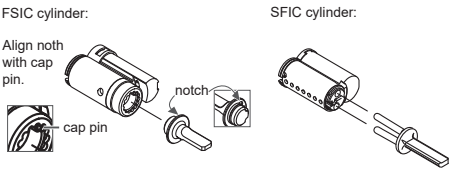
For Lock Less Cylinder Only  
(Skip to Step 7 if outside cylinder is already installed)

For IC Cylinders

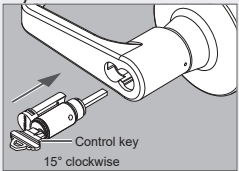
A) Install the Spindle Insert into the spindle ID until it contacts the Lever Catch. Be sure to engage the lever catch.



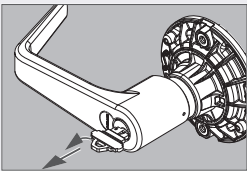
B) Align Cylinder Tailpiece blade and keyway.



C) Turn the Control key 15° and hold. Then insert assembly into lever.



D) Return control key to home and remove the key.



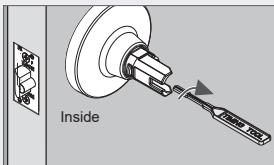
STEPS 7 - 12 ARE FOR INSIDE TIMING.  
COMPLETE THESE STEPS ONLY IF OUTSIDE CYLINDER IS ALREADY INSTALLED.

Step 7

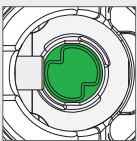
Install Lock  
**EXCEPT INSIDE  
LEVER**  
**REMOVE ANY KEY  
FROM THE  
OUTSIDE  
CYLINDER**  
  
TM381, TM561,  
TM575

Step 8

From **INSIDE**, rotate  
the Inside Keycam with  
the Timing Tool **CW**  
until it stops.

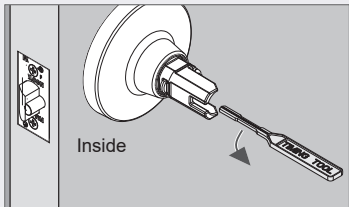


The Keycam position should  
appear as shown.



Step 9

Rotate the Inside Keycam back **CCW**  
slightly to the correct position.

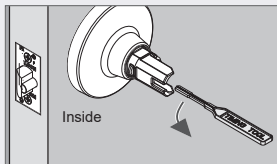


For KIL

Rotate the Inside Keycam back **CCW**  
135° until opening is vertical.

For IC

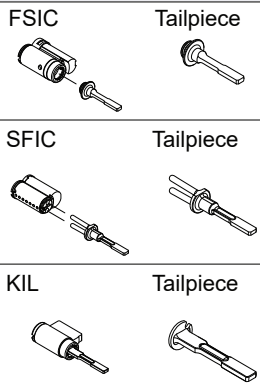
Rotate the Inside Keycam back **CCW**  
slightly to the correct position.



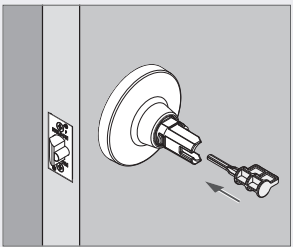
For all  
Cylinder Types

Step 10

Confirm correct  
Cylinder Tailpiece.



Install the Dummy  
Cylinder.

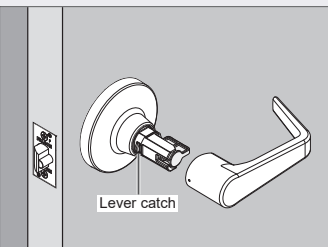


Step 11

Confirm correct Cylinder Spacer

| TYPE       | USAGE   | COLOR |
|------------|---------|-------|
| KIL        | Spindle | White |
| 6P SFIC    | Spindle | Black |
| 7P SFIC    | Spindle | Green |
| FSIC       | Lever   | White |
| 6P CR KIL  | Spindle | Blue  |
| 7P CR KIL  | Spindle | Red   |
| 6P SAR KIL | Spindle | Brown |
| 6P YAL KIL | Lever   | White |

Install **INSIDE** Lever by pressing  
the Lever onto the Lever Catch.



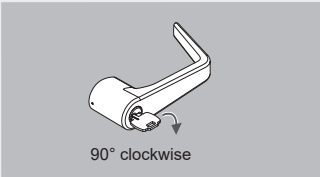
Step 12

Complete only if ouside cylinder is already installed (For 381 and 575 Only).

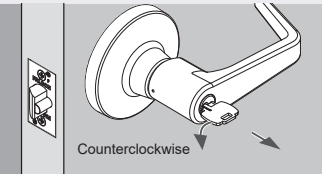
Install **INSIDE** Cylinder and Lever

For **KIL** Cylinders

- A) With key rotated 90° CW, press Lever onto Lever Catch.

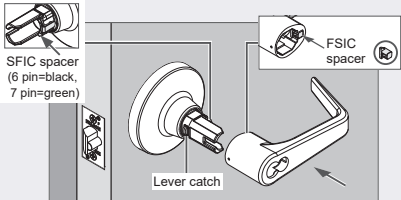


- B) Then, rotate key CCW to starting position and remove it from the cylinder.

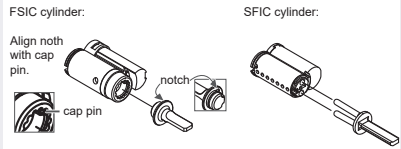


For **IC** Cylinders

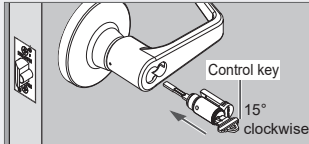
- A) If the inside lever is not installed, push the lever onto the spindle. Be sure to engage the lever catch. Spacer must be installed.



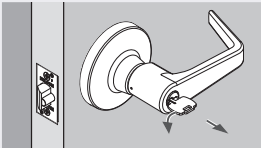
- B) Align Cylinder Tailpiece blade and keyway.



- C) Turn the Control key 15° and hold. Then insert assembly into lever.



- D) Return control key to home and remove the key.



Check Operation

See chart below for correct key rotation.

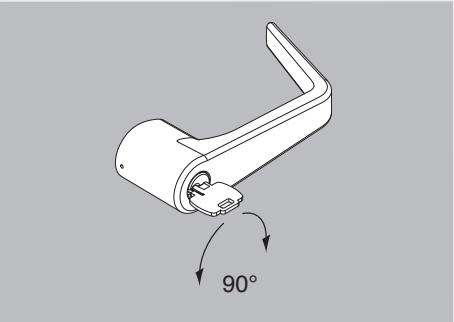
| FUNCTION          | KEY ROTATION                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TM381             | <b>INSIDE</b> rotates 180° CCW (to hard stop) and back to lock.<br><b>INSIDE</b> rotates 180° CW (to hard stop) and back to unlock.<br><b>OUTSIDE</b> rotates CW or CCW to retract latch when locked.                                                                                                                                                              |
| TM501             | <b>OUTSIDE</b> rotates CW or CCW to retract latch and unlock.                                                                                                                                                                                                                                                                                                      |
| TM511             | <b>OUTSIDE</b> rotates CW or CCW to retract latch and unlock when button pressed.<br><b>OUTSIDE</b> rotates CW or CCW to retract latch and remain locked when button pressed and turned.                                                                                                                                                                           |
| TM561             | <b>OUTSIDE</b> rotates 225° CCW (to hard stop) and back to lock.<br><b>OUTSIDE</b> rotates 225° CW (to hard stop) and back to unlock.                                                                                                                                                                                                                              |
| TM571             | <b>OUTSIDE</b> rotates 160° CCW (to semi-hard stop, +60° CCW to retract latch) and back to lock.<br><b>OUTSIDE</b> rotates 180° CCW and back to release button, retract latch and lock.<br><b>OUTSIDE</b> rotates 180° CW (to hard stop) and back to unlock outside lever.<br><b>OUTSIDE</b> rotates 225° CW and back to release button, retract latch and unlock. |
| TM575             | <b>INSIDE</b> and <b>OUTSIDE</b> rotates 180° CCW and back to lock.<br><b>INSIDE</b> and <b>OUTSIDE</b> rotates 180° CW and back to unlock.                                                                                                                                                                                                                        |
| TM581             | <b>OUTSIDE</b> rotates CW or CCW to retract latch. Always locked.                                                                                                                                                                                                                                                                                                  |
| TM851 - Fail Safe | When power is applied, <b>OUTSIDE</b> rotates CW or CCW to retract latch.                                                                                                                                                                                                                                                                                          |
| TM881 - Fail Safe | When power is removed, <b>OUTSIDE</b> rotates CW or CCW to retract latch.                                                                                                                                                                                                                                                                                          |

Troubleshooting

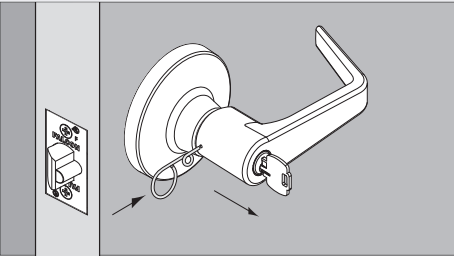
If your lock does not allow you to remove key, remove keyed lever, rotate key 180° and reinstall.

Remove Keyed Lever

To remove a keyed lever, rotate key 90°.



Insert pin wrench and push against lever catch. Pull off the lever.



Customer Service

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