LKM7003 Mounting Screw Torque Specifications

The following is a list of mounting screw torque specifications for the LockOne Series of Pedestrian door locks. This includes the LKM7000, LKM7002, LKM7003, LKM7004, and the LKM7006. If the following torque specifications cannot be obtained on a specific door, then Lockmasters recommends the use of a standoff kit to act as reinforcement inside the door. Lockmasters offers precut standoff kits for use on a 1 3/4" or 2" door thickness.

To maintain the recommended torque setting, Lockmasters requires the use of Blue, Medium Strength Thread-locker on all screws as specified in the installation instruction manual provided with each lock.

<table>
<thead>
<tr>
<th>Component</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handle Screw</td>
<td>700012S13</td>
</tr>
<tr>
<td>Lock Washer for Handle Screw</td>
<td>700012S18</td>
</tr>
<tr>
<td>Intermediate Gear</td>
<td>700012S14</td>
</tr>
<tr>
<td>Hub Handle Half Gear</td>
<td>700012S01</td>
</tr>
<tr>
<td>Handle between Spring</td>
<td>700012S12</td>
</tr>
<tr>
<td>Outside Lever Handle</td>
<td>700012S11</td>
</tr>
<tr>
<td>Neoprene Handle Grip</td>
<td>7000HANDGRP</td>
</tr>
<tr>
<td>Complete Front Plate Assembly</td>
<td>700012WBA</td>
</tr>
</tbody>
</table>

* Not supplied with LKM7002.
** 4 of these screws are supplied with the LKM7000, LKM7002, and LKM7004. 6 of these screws are supplied with the LKM7003 and LKM7006.

To maintain Underwriters Laboratories 90 minute fire rating on the lock, a stainless steel strike with 5 mounting screws must be used. The mounting screws are 10-24 x 1” stainless steel machine screws. The screw head will vary from pan head Phillips to Flat head Phillips screw depending on the strike specified.

The strike screws should maintain a torque reading of 48 Inch pounds.

To maintain the recommended torque setting Lockmasters requires the use of Blue, Medium Strength Thread-locker on all strike screws.

LKM7003 Front Plate Exploded View

Not all items are field retro-fittable.
## LKM7003 Inside Base Plate Exploded View

<table>
<thead>
<tr>
<th>Component</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside Base Plate Complete w/ Screws &amp; Hardware</td>
<td>700013WBA</td>
</tr>
<tr>
<td>Internal Access Control</td>
<td>700016</td>
</tr>
<tr>
<td>Handle Tube</td>
<td>700013S01</td>
</tr>
<tr>
<td>Extended Spindle Kit 4-5/8&quot;</td>
<td>700013S01EXT</td>
</tr>
<tr>
<td>Complete Wiring Harness</td>
<td>700013S45</td>
</tr>
<tr>
<td>Yoke</td>
<td>700013S09</td>
</tr>
<tr>
<td>Bolt Spring</td>
<td>700013S18</td>
</tr>
<tr>
<td>Slide Spring</td>
<td>700013S46</td>
</tr>
<tr>
<td>Trigger Spring</td>
<td>700013S19</td>
</tr>
</tbody>
</table>

*Not all items are field retro-fittable.*
LKM7003 Key Override Module Exploded View

<table>
<thead>
<tr>
<th>Component</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Key Override Module Complete Kit</td>
<td>LKM7001</td>
</tr>
<tr>
<td>Retaining Ring</td>
<td>700017S14</td>
</tr>
<tr>
<td>Light Tube</td>
<td>700017S15</td>
</tr>
<tr>
<td>Green Light Lens</td>
<td>700017S16</td>
</tr>
</tbody>
</table>

Not all items are field retro-fittable.
Read instructions thoroughly prior to installation

Record the Lock’s Serial Number prior to installation: __________________________

WARNING - Must read before installation

IT IS IMPERATIVE THAT THE DOOR REMAIN OPEN DURING INSTALLATION OF THE LKM7003. If the door closes while the back cover is removed, the relockers will trigger resulting in a lockout.

Important Information
All seals and gaskets must be applied to the door frame PRIOR to installing a LockOne Series Lock. Compression type sound seals are NOT RECOMMENDED when using a LockOne Series Lock.

DRILLING A HOLLOW DOOR
To avoid alignment issues you should NEVER drill a through hole in a hollow door. To ensure a level through hole, you should drill through one side of the door then drill through the other side of the door.

STAND-OFF KIT for the LockOne Series Lock
We strongly recommend using a Stand-Off Kit, which prevents a hollow metal door from compressing during installation of a LockOne Series Lock. Stand-Off Kits are sold separately and available for 1 3/4” and 2” doors.

PART NUMBERS: 1 3/4” Door - LKM7000SOK1
                2” Door - LKM7000SOK

Optional INTERNAL HARDPLATE
Can be purchased separately for the LKM7003 & LKM7006.

PART NUMBER: LKM7003SMHP

DOOR COVERS
When retro-fitting an existing door we recommend using a set of 12” x 18” door covers, prior to installation.

PART NUMBER: LKM7000DCIO (set of 2)

DOOR WEDGES
It’s a simple 3 oz. wedge of practically indestructible lexan plastic designed to hold virtually any door at 90°. Interior or exterior, oversize, special purpose, even pivoting glass doors.

PART NUMBER: LKMDWEDGE

Magnetic Strike Template Set
Temporary magnetic strikes for installing the LKM7000 series of locks. The strikes are to ensure good lock alignment without permanently attaching the strike to the frame. The strikes are red as an indicator so the installer will NOT accidentally leave the strike on the door.

PART NUMBER: MAGSTRIKEKIT (#2, #3 & #9 Strikes)
LKM7003 Strikes

Strike 1 - LKM01S
Single Door Regular Bevel or Double Door Regular Bevel

Strike 2 - LKM02S
Single Door Reverse Bevel

Strike 3 - LKM03S
Single Door Regular Bevel or Double Door Regular Bevel

Strike 9 - LKM09S
Double Door Reverse Bevel
LKM7003 Main Components

A. Front Plate  
B. Lever Handle  
C. Inside Base Plate (IBP)  
D. Templates  
E. 1/4"-20x2-1/2" Socket Head Machine Screws (4)  
F. 1/4" Phillips Head Thread Forming Screws (4)  
G. 1/4"-20x1-3/4" Socket Head Machine Screws & Washer  
H. 1/4"-20x1-3/4" Flat Head Phillips Machine Screws & Washers  
I. Push & Push Decals  
J. Lever Handle Grip  
K. Debur Stone  
L. 3/32" & 3/16" Hex Handle Wrenches  
M. Liquid Thread Locker  
N. Key Cylinder Plate  
O. Green Light Lens  
P. White Collar  
Q. Acrylic Light Tube  
R. Key Override Module (KOM)  
S. 1/4" Phillips Head Thread Forming Screws (2)  
T. Change Key Hole Plug  
U. Surface Mounting Plate Assembly

LKM7003 Installation - Tools Needed

Drill  
Wire Cutters or Strippers  
Snap Ring Pliers  
File  
Chisel  
Hack Saw  
Center Punch  
(Typical recommended)  
Tap (10-24)  
Tap Handle  
Hammer  
Deadblow Hammer or Rubber Mallet  
Small Pocket Screwdriver  
Phillips & Flat Screwdrivers  
Level & Combination Square  
Tape Measure  
Vise  
Masking & Double Sided Tape  
Scissors & Exacto Knife  
3/4" Wood Cutting Bit  
1/8" Drill Bit  
13/64" Drill Bit  
3/16" Drill Bit  
5/16" Drill Bit  
3/8" Drill Bit  
3/4" Hole Saw  
1 5/8" Wood Cutting Bit  
1 5/8" Hole Saw  
13/64" Drill Bit  
#25 Drill Bit  
Safety Goggles  
Rubbing Alcohol
LKM7003 Strike Installation

For this application the LKM7003 is installed on a single hollow metal door with a #2 strike, however the instructions apply to any strike. Please note Lockmasters has stainless steel strikes exclusively for the LKM7000 family of locks.

Step 1 – Temporarily Installing the Strike

Step 1A – Position the center of the strike 43” on the door frame above the finished floor. **NOTE:** The inside base plate should not extend beyond the edge of the door.

Step 1B – Mark the top and bottom position of the strike as well as the oversized alignment hole in the center of the strike.

*Tip: double stick tape the strike into position to mark and punch.*

**NOTE:** at 43” the strike, handle and dial are within ADA requirements.

Step 2 – Center punch the alignment/center hole of the strike.

Step 2A – Drill a pilot hole with a #25 drill bit. Use an 10-24 tap and tap the center alignment hole. Attach the strike to the door frame with the 10-24x1” pan head machine screw provided and tighten into the center hole only.

*Tip: use an automatic center punch for more precise punching.*

Step 3 – Prepare the Installation Templates

Begin by selecting the template that matches the appropriate door handing for the install. Templates are provided for both right and left hand doors. Before beginning the installation cut out all the areas marked with a dashed line.
**LKM7003 Installation**

**Step 4 – Position the Inside Base Plate Template**
Close the door and align the Inside Base Plate template over the strike and level with the indicated horizontal level line on the template. Make sure to keep equal clearance around the strike. Attach the template to the door with masking tape. **NOTE:** If the template hits the strike, you can either reposition the template or loosen the strike screw and adjust the strike position and retighten the screw.

![Image of template](image)

**Step 5 – Position the Front Plate Template**
**Step 5A** – Make a small mark on the door’s edge in line with the horizontal level line.

**Step 5B** – Use the combination square to transfer that level line around the edge of the door.

**Step 5C** – Use the combination square to extend that level line across the front of the door at least 9”. This establishes a horizontal level line from the back of the door around to the front.

![Image of square and level](image)

**NOTE - FOR BEVELED DOOR EDGE**
If the door has a beveled edge, establish the high side of the bevel using the combination square. If it has a bevel the square must be flat against the door and flat against the high edge. You will see a gap between the door and the combination square.

(See Figure 2).

![Image of beveled door](image)

Figure 2 - Establishing the high side of a bevel edged door.
LKM7003 Installation

Step 5D – Once the high side of a beveled edged door is established. Loosen the combination square and position the rule to the vertical plumb line on the Inside Base Plate template and tighten the combination square. (See Figure 3).

(Figure 3) ESTABLISH VERTICAL PLUMB LINE
On the IBP template position the combination square against the vertical plumb line.

Step 5E – Transfer the vertical level line by flipping the combination square to the other side of the door and make two marks at the end of the rule approximately 6” apart.

Step 5F – With the rule positioned on the marks draw the vertical plumb line at least 9”. This establishes a vertical plumb line on the outside of the door.

Step 6 – Position the front plate template.
Step 6A - Align the vertical and horizontal lines printed on the template where they intersect with the vertical and horizontal lines drawn on the door. Tape the template to the door with masking tape. (See Figure 4 below)

(Figure 4) POSITION FRONT PLATE TEMPLATE
Align front plate template to the vertical and horizontal lines marked on the front of the door.

6 - Template - Front of door vertical and horizontal plumb lines marked.

6 - Template - Taping front plate template to vertical and horizontal plumb lines.
LKM7003 Installation

**Step 7 – Center punch and label holes**

**Step 7A** - Begin on the Inside Base Plate template and use your hammer and center punch to mark “punch” the following: (1) A, clutch hole; (6) B, Front Plate attaching holes; (4) C, Inside Base Plate attaching holes; (1) F, Rim Cylinder hole; (2) G, Key Override attaching holes; (1) H, Green Light Indicator hole; and (1) J “optional” Wire Entry Hole - Punch only if you are utilizing one or more of the following:
- 12 or 24v dc Access Control input,
- Monitoring the position of the Combination Lock Bolt
- Monitoring the position of the LKM7003 Dead Bolt/Request to Exit (REX).
Potentially (16) holes.

**Step 7B** – Re-tape the template above the punched holes for easy reference. Label all the hole diameters from the template to the corresponding holes on the door for reference during drilling.

**Step 7C** – Move to the front plate template, use your hammer and center punch to mark “punch” the following (1) D, spindle hole; (6) E, front plate attaching holes; (1) F, Rim Cylinder hole; and (1) H, Green Light Indicator hole.

**Step 7D** - Re-tape the template above the punched holes for easy reference. Label all the hole diameters from the template to the corresponding the holes on the door for reference during drilling.
LKM7003 Installation

NOTICE
HOLLOW DOOR NOTICE: Due to alignment issues, you should NEVER drill a through hole in a hollow door. To ensure a level through hole, you should drill through one side of the door then drill through the other side of the door.

Step 8 – Drill Pilot Holes
Step 8A - We recommend using a 1/8" drill bit to pilot drill all center punched holes.

Step 9 – Drill the Inside Base Plate side of the door
Step 9A - Drill the (1) A, clutch hole – use a 1-5/8" hole saw, drill through the outer skin of the door only. IMPORTANT NOTE: for solid wood doors - use a 1-5/8" wood cutting bit. Use masking tape on the bit to mark a depth of 1-1/16".

Step 9B – Drill the (6) B, Front Plate attaching holes – use a 5/16” drill bit, drill through the outer skin of the door only. IMPORTANT NOTE: Solid wood doors - use a 5/16” wood cutting bit. Use masking tape on the bit to mark a depth of 1-1/2”.

Step 9C – Drill the (4) C, Inside Base Plate attaching holes – use a 13/64” drill bit, drill through the outer skin of the door only. Please note, this drill bit dimension is larger than specified on the template for ease of threading screws into hollow metal. IMPORTANT NOTE: Solid wood doors - use a 3/16” wood cutting bit. Use masking tape on the bit to mark a depth of 1”.

Step 9D – Drill the (1) F, Rim Cylinder hole – use a 1-1/4” hole saw, drill through the outer skin of the door only. IMPORTANT NOTE: Solid wood doors – use a 1-1/4” wood cutting bit and drill approximately half way through the door.

Step 9E – Drill the (2) G, Key Override attaching holes – use a 13/64” drill bit, drill through the outer skin of the door only. IMPORTANT NOTE: Solid wood doors – use a 3/16” drill bit. Use masking tape on the bit to mark a depth of 1”.

Step 9F – Drill the (1) H, Green Light Indicator hole – use a 3/8” drill bit, drill through the outer skin of the door only. IMPORTANT NOTE: Solid wood doors – use a 3/8” drill bit and drill approximately half way through the door.

Step 9G – (1) J, "optional" Wire Entry hole for doors with INTERNAL RACEWAY – use a 5/16” drill bit, drill through the outer skin of the door into the internal raceway. This applies to solid wood doors as well. For door’s WITHOUT AN INTERNAL RACEWAY - DO NOT DRILL the J hole, the wiring is fed through the square hole in the casting of the Key Override Module.

Step 9H - (1) J, "optional" Wire Entry hole for doors with INTERNAL RACEWAY

Step 9I - Drill the Inside Base Plate holes drilled

Step 8 - Pilot drill all holes

Step 9a - Drill the Inside Base Plate side of the door.

Step 9g - WITHOUT AN INTERNAL RACEWAY

Step 9a - Drill the Inside Base Plate side of the door.

Step 9b - Drill the Inside Base Plate side of the door.

Step 9c - Drill the Inside Base Plate side of the door.

Step 9d - Drill the Inside Base Plate side of the door.

Step 9e - Drill the Inside Base Plate side of the door.

Step 9f - Drill the Inside Base Plate side of the door.

Step 9g - Drill the Inside Base Plate side of the door.

Step 9h - Drill the Inside Base Plate side of the door.
LKM7003 Installation

Step 10 – Drill the Front Plate Side of the door
Step 10A – Drill the (1) D, Spindle hole – use a ¾” hole saw, drill through the outer skin of the door only. **IMPORTANT NOTE**: Solid wood doors - use a ¾” wood cutting bit and drill until it connects to the (A) Clutch hole.

Step 10B – Drill the (6) E, Front Plate attaching holes – use a 5/8” hole saw, drill through the outer skin of the door only. **IMPORTANT NOTE**: Solid wood doors – use a 5/8” wood cutting bit and drill to a depth of at least 9/16” and connect to the previously drilled 5/16” (B) Front Plate attaching holes.

Step 10C – Drill the (1) F, Rim Cylinder hole – use a 1-1/4” hole saw, drill through the outer skin of the door only. **IMPORTANT NOTE**: Solid wood doors – use an 1-1/4” wood cutting bit and drill until it connects to the previously drilled 1-1/4” (F), Rim Cylinder hole.

Step 10D – Drill the (1) H, Green Light Indicator Hole – use a 3/8” drill bit, drill through the outer skin of the door only. **IMPORTANT NOTE**: Solid wood doors – use a 3/8” drill bit and drill until it connects to the previously drilled 3/8” (H), Green Light Indicator hole.

Step 11 – Prep all drilled holes
Step 11A - Use the debur stone to debur all drilled holes.

Step 11B- Pre-thread all (4) C, Inside Base Plate attaching holes and (2) G, Key Override attaching holes – using one of the Phillips head thread forming screws (S). A #2 square drive bit works well with the screws.
Step 12 – Assemble the Green Light Indicator to the Key Cylinder Plate

NOTE: The Green Light Indicator must always be assembled so the light is located ON TOP of the Key Cylinder Plate.

Step 12A – Slide the Green Light Lens (O) through the Key Cylinder Plate (N)

Step 12B – Secure the Green Light Lens by sliding the White Collar (P) over the backside of the Green Light Lens.

Step 12C – Insert the small end of the Acrylic Light Tube (Q) into the backside of the green lens. Make sure the Light Tube snaps into position.

Step 13 – Attach the Green Light Indicator/Key Cylinder Plate Assembly to the front of the door.

Step 13A – On the front side of the door, slide the Green Light Indicator/Key Cylinder Plate Assembly through the (H) hole until the plate is flush against the door.
Step 14 - Installing the Optional Surface Mounting Plate (3 pieces)
Lockmasters supplies an internal mounting plate & rim cylinder reinforcement sleeve with all LKM7003 & LKM7006 locks. It is recommended to use these parts for additional reinforcement between the Inside Base Plate and the Key Override Module on hollow doors that have not been reinforced internally for these locks. If additional force protection is needed, Lockmasters manufactures an internal hardplate, which can be purchased separately (LKM7003SMHP).

Step 14A - Insert Rim Cylinder Reinforcement Sleeve into the External Mounting plate.
Determine the handing. The mounting plate is designed to work on left and right hand doors. Once the handing is determined press the notched end of the sleeve into the rim cylinder hole on the mounting plate. Seat the sleeve into position using a rubber mallet.

Step 14B - Align and attach the Surface Mounting Plate assembly on the inside of the door with double sided tape. This will ensure the rim cylinder’s tail piece is cut to the correct length.

Step 15 – Attach the Rim Cylinder to the Front of the Door.
NOTE: The Rim Cylinder is not included in the LKM7003 package, must be purchased separately. We recommend using a interchangeable core cylinder for ease of re-keying. However, you will need to use the (black) back plate that comes with the Surface Mounting Plate kit.

Step 15A – On the front side of the door, insert the Rim Cylinder through the Key Cylinder plate into the (F) hole and hold into position.

Step 15B – Mark the tail piece on the Rim Cylinder so that in extends at least 1/8” but not longer than ¼” from the inside door surface. NOTE: Surface mounting plate must be installed prior to marking the tail piece.

Step 15C – Cut the Rim Cylinder tail piece on the mark.
NOTE: If the tail piece is TOO LONG this can cause the Key Override to bind. The Rim Cylinder tail piece MUST be installed in the horizontal position.
LKM7003 Installation

Step 15 – Attach the Rim Cylinder to the Front of the Door (continued)

Step 15D - With a file round off both corners of the Rim Cylinder tail piece. See Figure 5.

Step 15E – Secure the Rim Cylinder to the door using the black back plate provided with the LKM7003 and the screws from the rim cylinder kit.

Step 15F – Check the Rim Cylinder for smooth operation.

Step 15G – Prep the rim cylinder tail piece for easy alignment with the Inside Base Plate, by loosely taping a piece of masking tape under the tail piece holding it straight out.

Step 16 – Prepare the front plate for installation

Step 16A – use the 3/32” T-Handle hex wrench to remove the (4) hex screws from the backside of the Front Plate and carefully lift the back cover off. Make sure not to shift any internal parts. Please refer to Figure 6 below if the gears shift. Note the position of the timing marks on the gears.

Tip: Position the Front Plate so it remains flat will help keep the internal gears aligned.

Step 16B – remove (1) of the (2) plastic filler plugs on the Rim Cylinder side of the Front Plate. Upon removal of the back cover both filler plugs will dislodge. Keep the permanent plug in place with the slotted side facing you.

Step 16C - Re-attach the back cover of the Front Plate.

Note: By removing the filler plug, this allows the Front Plate to lay flush on the door over the edge of the Key Cylinder Plate.
LKM7003 Installation

Step 17 – Attach the Lever Handle to the Front Plate

Step 17A – Attach the lever handle correctly depending on the direction of the door swing. The handle will always point toward the hinge side of the door. (See Figure 7)

(Figure 7) DIRECTION OF THE LEVER HANDLE
The handle will always point toward the hinge side of the door.

Step 17B – Place the split washer (G) onto the ¼”-20x1 ¾” socket head machine screw (G) insert through the back of the Front Plate and thread it into the lever handle.

Note: Apply Medium Strength Thread-locker to the handle screw.

Step 17C – Secure the screw tightly using the 3/16” T-Handle hex wrench.

NOTE: See Page 2 for the recommended torque specification for this screw.

IF AN OPTIONAL STANDOFF KIT IS BEING USED - INSTALL NOW
Stand-offs are used to prevent a hollow metal door from compressing during installation. The kit is applied to the backside of the Front Plate.

Take the (6) threaded set screws that come in the Stand-off kit and thread them into the backside of Front Plate.

Then thread the (6) Stand-off sleeves onto the exposed threads of the set screws until making contact with the backside of the Front Plate.

NOTE: See Page 2 for the recommended torque specification for this screw.
Step 18 – Attach the Front Plate to the Door

Step 18A – On the front side of the door, seat the Front Plate into the (6) counter-bored (E) holes until flush and square with the door. Hold into position.

18a - Front plate in position.

Tip: To hold the Front Plate in position apply a piece of double stick tape to the back. Make sure not to cover gears or spindle hole.

Step 18B – Move to the Inside Base Plate side of the door to secure the lower portion of the Front Plate. Place a finishing washer (H) on each of the (2) ¼"-20x2" flat head Phillips screws (H) and insert into the (2) lower (E) holes. Tighten to a snug fit. STANDOFF KIT OPTION – if the Stand-off kit is installed use the (2) shorter ¼-20 flat head Phillips screws supplied with the Stand-Off Kit instead of the longer (H) screws.

See Page 2 for the recommended torque specification for this screw.

18a - Seat the front plate in the (6) counter-bored E holes until flush against the door. Note: Optional Stand-off Kit is being used here.

Step 18b - On the IBP side of the door, secure the lower portion of the Front Plate.
DOOR WARNING – It is imperative that the door remains open during installation of the LKM7003. If the door closes and latches while the back cover is removed the relockers will trigger into a lock-out.

Step 19 – Remove the Inside Base Plate cover
Step 19A – Use the 3/32” T-Handle hex wrench and remove all (4) 8-32x3/8” socket head button screws.

Step 19B – Retract the bolt by depressing and holding the exit handle. Insert a flathead pocket screwdriver under the cover, behind the handle and rotate the screwdriver. The cover will release. Tilt the cover and slide through the handle to remove.

Step 20– Measure the Spindle
Step 20A – On the inside of the door seat the Inside Base Plate with the Spindle going through the (A) hole until flush against the door and hold in position.

Step 20B – Move to the front side of the door and mark the spindle flush with the Front Plate or count the number of exposed grooves on the spindle. Remove the Inside Base Plate in order to remove the spindle.
Step 21 – Remove & Cut Spindle to Correct Length
Step 21A – Use your snap ring pliers to remove the internal spindle tube retaining ring.

Step 21B – Remove the spindle tube from the Inside Base Plate by pulling the spindle tube through the Inside Base Plate then remove the remaining external spindle tube retaining ring. Both spindle tube retaining rings need to be removed to ensure they are not damaged.

**NOTE:** Spindle MUST BE REMOVED prior to cutting. Debris can cause damage to the internal lock parts.

Step 21C - Place the end of the spindle tube that will be discarded into a vise and tighten. **DO NOT OVERTIGHTEN, THIS CAN CAUSE DAMAGE TO THE SPINDLE TUBE AND INTERFERE WITH THE OPERATION OF THE LOCK.**

Step 21D – Use a hacksaw to cut the spindle tube (2) grooves below the mark or counted depth. This is done so the spindle tube is flush with the front plate once all the screws are tightened. **NOTE:** Make sure to debur and clear all metal shavings from the spindle tube use a file and debur stone.

Step 21E – Re-insert the spindle tube into the Inside Base Plate, making sure the grooves on the spindle tube align with the tabs on the clutch cam and re-attach the spindle tube retaining ring with the snap ring pliers.

**NOTE:** Use a file or debur stone clear all metal shavings from the spindle tube.
LKM7003 Installation

Step 22 – Integrate the Key Override Module to the Inside Base Plate

Step 22A – Use the 3/32” T-Handle hex wrench to remove the (2) cover screws on the Key Override Module (R). Remove the white protective film from the Key Override Module cover.

Step 22B – The Key Override tail piece must be inserted into the Inside Base Plate’s bolt actuator slide, which is not visible (See Figure 8). Disarm both relockers by inserting a wire nut under each one and press the trigger to retract the bolt.

Step 22C - With your hand turn the spindle to expose the bolt actuator slide, which is inside the IBP.

Step 22D - Prep the Key Override Module by inserting a flat screwdriver into the back cylinder cam and rotating until it stops.

Step 22E - With the Key Override Module in one hand, turn the spindle on the Inside Base Plate and insert the Tail Piece on the Key Override Module into the exposed Bolt Actuator on the Inside Base Plate while aligning the module’s locking hooks into the slots on the IBP casting. This interlocking connection ensures the Key Override Module from being removed without disassembling the lock.

Step 22F - Once attached return the Key Override Module cylinder cam to its original

Tip: Using the LKM7003 Strap clamp makes the installation much easier.
Part No. LKM7003/6SCL
position, by inserting a screwdriver and turn back until it stops.

**Step 23 – Secure the Inside Base Plate & Key Override Module to the door**

**Step 23A** - Carefully align the (3) components. Guide the Inside Base Plate spindle through the (A) hole, while guiding the acrylic Light Tube into the appropriate hole in the Key Override Module. Then align the Rim Cylinder tail piece into the slotted cam located on the backside of the Key Override Module.

**Step 23B** – Once the Inside Base Plate & Key Override Module rests flush against the door secure with the (4) F metal thread forming screws into the (4) C holes.

**HARDPLATE OPTION** – If hardplate was installed you will only be installing (2) (F) $\frac{1}{4}''$ Phillips head thread forming screws into (2) C holes.

**Step 23C** – Secure the Key Override Module to the door with the (2) F metal thread forming screws into the (2) G holes. Pull the masking tape out that was holding the Key Cylinder tail piece in position, that was previously installed in Step 15G.

**Step 23D** – To ensure vibration does not loosen the screws over time, we provide a pack of Liquid Thread Locker (M) for use on the (4) $\frac{3}{8}$-20x2 $\frac{1}{2}''$ socket head machine screws (E) that are used to secure the Front Plate. Simply place a few drops of the liquid onto the threads prior to use.

**Step 23E** – On the Inside Base Plate side of the door, permanently attach the (4) $\frac{3}{8}$-20x2 $\frac{1}{2}''$ (E) screws. These (4) screws will go into the upper 4 (B) holes. Do not tighten screws completely until all (4) are fully inserted. Then completely tighten.

**STAND-OFF KIT OPTION** – if Stand-off Kit is installed use the (4) shorter $\frac{3}{8}$-20 hex head machine screws supplied in the Stand-off Kit, instead of the longer (E) screws.

**Step 23F** – Remove (2) (H) Phillips heads screws that were previously installed in step 18B. Apply liquid Thread Locker to these screws. Reinstall and tighten.

**NOTE:** See Page 2 for the recommended torque specification for this screw.
WIRING

Solenoid Specifications

12 or 24v dc minimum amperage 199 miliamps

NOTE: Combination Lock Sensor & LKM7003 Deadbolt Sensor/Request to Exit (REX)
The combination lock bolt sensor monitors the extension and retraction of the combination lock bolt. The LKM7003 Deadbolt Sensor/REX can be used to monitor the LKM7003 dead bolt. This can also be used as a Request to Exit switch to shunt an alarm system. (See Figure 9)

(Figure 9) WIRE DIAGRAM
The bolt position switch can be used as an option in order to monitor the position of the combination lock bolt and the lock bolt of the LKM7003.
Step 24 – Connect the Access Control and Optional Bolt Sensor Wiring to the Key Override Module.

**NOTE:** Continuity is important when wiring the access control power supply. The LED will not illuminate if wired backwards. Although the access control will operate.

**Step 24A** – Remove the insulation from the access control power supply wire. Insert the wires into the correct receptacles in the Key Override Module (see Figure 10) and tighten the screws to secure. The other (9) receptacles are not assigned and are used to integrate the wiring to the Bolt Monitor Sensors.

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**WARNING:** The LKM7003 is a “Fail Secure” lock, either a badge or key must be inserted and/or used before the lock will open at this point. The Key Override Module is NOT designed for continuous duty.

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Step 25 – Remove Both Pieces of White Protective Film from the Front Plate.

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Step 26 – Install the Lever Handle Grip.

Lubricate the lever handle with liquid soap and with the widest end first slide the foam grip onto the handle.
LKM7003 Installation

Step 27 – Install the Combination Lock
Step 27A - Read then remove the internal warning label in the Inside Base Plate.

Step 27B - When integrating a combination lock package with the LKM7003 follow the lock manufacturer’s instructions to install properly.

Step 28 – Re-attach the Inside Base Plate Cover
Step 28A – Insert the Change Key Hole Plug (T) into the Change Key Hole. If the plug is loose, expand the metal tabs.

Step 28B – Guide the Inside Base Plate Cover through the handle and align the screw holes.

Step 28C – Reinstall and secure the cover with (4) 8-32 x 3/8” socket head button screws.
LKM7003 Installation

Step 29 - Re-install and secure the Key Override Module cover with (2) 8-32 x 3/8” socket head button screws.

29 - Reinstalling KOM back cover.

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Step 30 – Push/Pull Decal

Step 30A - Clean the surface of the handle with rubbing alcohol to ensure good label adhesion.

Step 30B - Place the Push or Pull decal on the Inside Base Plate handle depending on the swing of the door.

30a - Clean the surface of the IBP handle with rubbing alcohol.

30b - Place the applicable “Push” or “Pull” label on the IBP handle.
LKM7003 Installation

**Step 31 - Strike Adjustment & Installation**

**Step 31A** – Close the door to ensure proper function. Make sure that no part of the Inside Base Plate is rubbing the strike. Now is the time to make adjustments to the strike if necessary. Minor adjustments can be made to the strike by either:

1. Loosen the center alignment screw.
2. Add paper shims provided with the strike.
3. File the adjustment tabs cast into the strike.

Once the strike is correctly aligned with the Inside Base Plate, tighten the alignment screw.

**Step 31B** – Center punch the (4) remaining strike screw holes.

**Step 31C** - Use a #25 drill bit to drill the pilot holes on the remaining (4) holes.

**Step 31D** - Use an 10-24 tap and tap the remaining (4) holes.

**Step 31E** - Attach the strike to the door frame with the (4) 10-24x1” screws provided and tighten.

*Note: Apply Medium strength Thread-locker to all strike screws.

NOTE: See Page 2 for the recommended torque specification for this screw.*

**Final Step** – After completing the installation, please read the enclosed operation instructions and test the functionality of the combination lock, access control, Key Override, LKM7003 and the door.
Limited Liability Product Warranty Information

Lockmasters, Inc. warrants to the original retail purchaser for a period of one (1) year from the purchase date of the product that the product shall be free of defects in the materials and workmanship, provided there is compliance with all installation, operating and maintenance instructions provided by Lockmasters, Inc. and provided further, that the product has been subject to normal use without any misuse, negligence, or the occurrence of any accidental damaging. “Product” as used in this warranty refers to the Lock/One™ Series Lock, not the installed combination lock.

This limited warranty is in lieu of all other warranties or conditions expressed or implied by law and/or custom.

In no event shall Lockmasters, Inc. liability exceed the original cost of the product.

Lockmasters, Inc. makes no other warranty with respect to the product, expressed or implied, including without limitation any warranty as to suitability of the product for any particular purpose or use of the merchantability thereof and shall not be liable for any loss or damage sustained through burglary, theft, robbery, fire or other hazard.

In the event of a defect in the materials or workmanship covered by this warranty, the purchaser shall return, at purchaser’s expense, the product to Lockmasters, Inc. The purchaser’s sole remedy shall be the repair or replacement of the product and under no circumstances shall Lockmasters, Inc. be liable to the purchaser or any other for any consequential, incidental, economic, direct or indirect, general or special damages arising out of any breach of warranty.

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