TDK DOORS

HE50 INSTALLATION MANUAL

INSTALLATION PREPARATION GUIDELINES

1. COMPONENT INVENTORY CHECK
   INSPECT THE PACKAGE CONTENTS TO VERIFY ALL PARTS ARE PRESENT AND UNDAMAGED.
2. DOOR FRAME MEASUREMENT VERIFICATION
   MEASURE THE INTERIOR DIMENSIONS OF THE DOOR FRAME.
   ENSURE THEY MATCH THE SWINGING DOOR SPECIFICATIONS OUTLINED IN THE ORDER CONTRACT.
3. STRUCTURAL INTEGRITY INSPECTION
   CONFIRM THE DOOR FRAME IS:
   *PERFECTLY SQUARE (90° ANGLES AT ALL CORNERS)
   *PLUMB (VERTICALLY ALIGNED)
   *SECURELY ANCHORED TO THE STRUCTURE
   SURFACE JOINTS MUST SHOW NO VISIBLE GAPS OR INSTABILITY.
4. MINIMUM FRAME REQUIREMENTS
   FRAME MUST MEET:
   *50MM THICKNESS × 100MM WIDTH (NOMINAL LUMBER DIMENSIONS).

CRITICAL NOTE:
PROPER OPERATION REQUIRES PLUMB INSTALLATION. DEVIATIONS WILL VOID WARRANTY AND IMPAIR FUNCTIONALITY. IMMEDIATE ACTION REQUIRED FOR:
- MISSING/DAMAGED COMPONENTS
- FRAME DIMENSION MISMATCHES
- STRUCTURAL NON-COMPLIANCE

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DRILL BIT SIZES:

FOR M6 SCREWS:
*USE 5mm DRILL BIT.
FOR M5 SCREWS:
*USE 4mm DRILL BIT.
FOR ANCHOR BOLTS (OPTIONAL/IF APPLICABLE):
*USE 12mm MASONRY DRILL BIT (FOR CONCRETE).

FASTENER APPLICATION SPECIFICATIONS

***COMPONENT ④ (QTY: 4)**
USE M6*50mm HEX HEAD SELF-TAPPING SCREW WITH DRILL POINT
***COMPONENT ③ (QTY: 4)**
USE M6*38mm HEX HEAD SELF-TAPPING SCREW WITH DRILL POINT
***COMPONENT ③ FLOOR ANCHORS (QTY: 2)**
USE M8*80mm EXPANSION BOLT
***COMPONENT ⑥ (QTY: 6)**
USE M4*20mm PAN HEAD TAPPING SCREW
***COMPONENT ⑦ (QTY: 8)**
USE M5*25mm HEX HEAD SELF-TAPPING SCREW

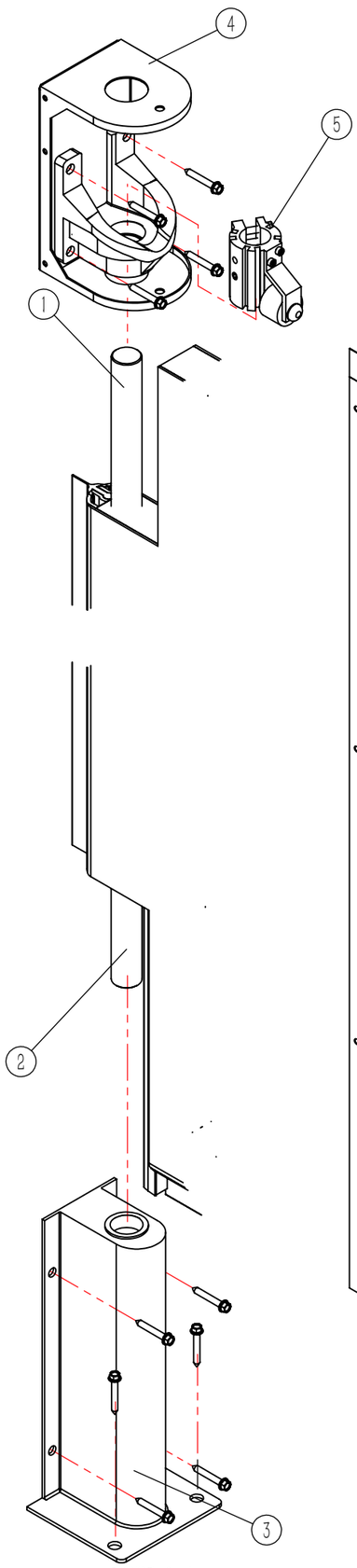

FIGURE 2-A

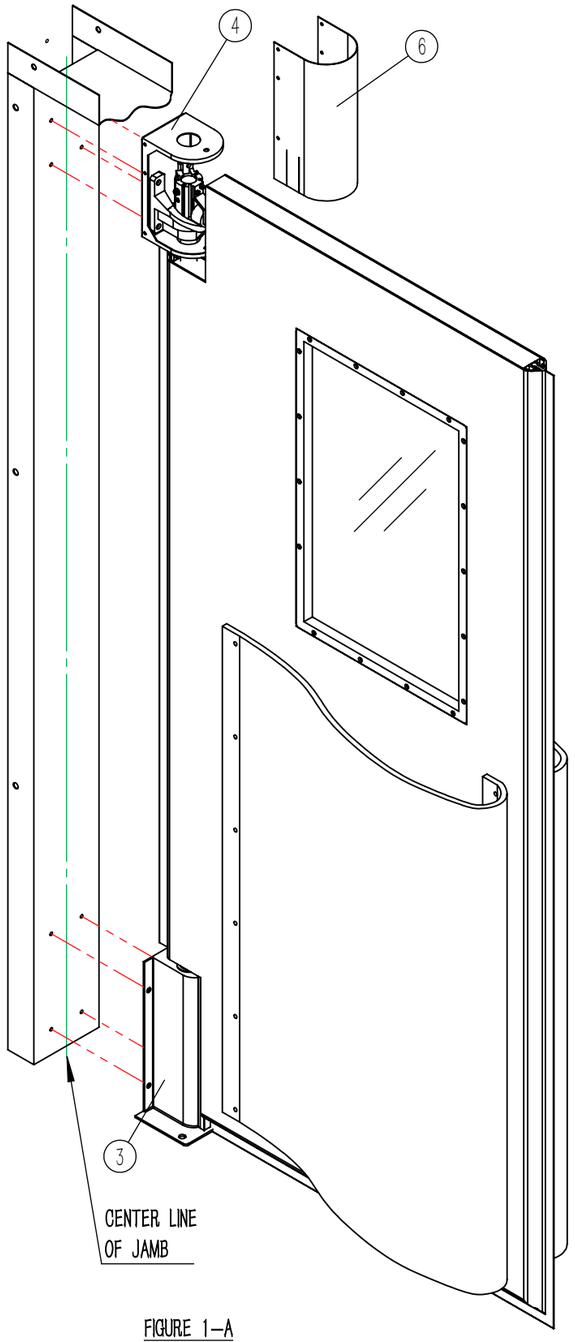

FIGURE 1-A

STEP 1: MARK AND DRILL HINGE LOCATIONS ON DOOR FRAME

1-1. LOCATE CENTERLINE & POSITION UPPER HINGE **(COMPONENT ④)**
*IDENTIFY THE VERTICAL CENTERLINE OF THE DOOR FRAME.
*ALIGN THE UPPER HINGE WITH THE TOP RIGHT-ANGLE CORNER OF THE FRAME.
*MARK 4 HOLE LOCATIONS USING A PENCIL **(SEE FIGURE 1-A)**.
1-2. POSITION LOWER HINGE **(COMPONENT ③)**
*ALIGN THE LOWER HINGE WITH THE BOTTOM RIGHT-ANGLE CORNER OF THE FRAME.
*MARK 4 HOLE LOCATIONS USING A PENCIL **(SEE FIGURE 1-A)**.
1-3. DRILL PILOT HOLES
*USE AN APPROPRIATELY SIZED DRILL BIT TO CREATE HOLES AT ALL MARKED POSITIONS.

PRO TIP:
FOR OPTIMAL PLUMB INSTALLATION OF SWINGING DOORS, UTILIZE A LASER LEVEL TO VERIFY VERTICAL ALIGNMENT DURING MARKING AND DRILLING.

STEP 2: INSTALL UPPER AND LOWER HINGES

2-1. ATTACH LOWER HINGE **(COMPONENT ③)**
*SECURE THE LOWER HINGE TO THE BOTTOM RIGHT-ANGLE CORNER OF THE DOOR FRAME USING SCREWS.
*DO NOT FULLY TIGHTEN AT THIS STAGE **(SEE FIGURE 2-A)**.
2-2. ASSEMBLE UPPER HINGE **(COMPONENT ④)**
*INSERT THE UPPER HINGE INTO THE HINGE LINKAGE ROD **(COMPONENT ①)**.
*SLIDE THE NEEDLE ROLLER BEARING **(COMPONENT ⑤)** ONTO THE LINKAGE ROD.
*DO NOT SECURE THE BEARING TEMPORARILY **(SEE FIGURE 2-A)**.
2-3. ALIGN DOOR PANEL CONNECTORS
*INSERT THE DOOR PANEL LOWER CONNECTOR **(COMPONENT ②)** INTO THE LOWER HINGE **(COMPONENT ③)**.
*ENSURE ALL HINGE ASSEMBLIES ALIGN PRECISELY WITH PRE-DRILLED PILOT HOLES.
2-4. FINAL FASTENING
*INSTALL ALL SCREWS INTO ALIGNED HOLES.
*FULLY TIGHTEN ALL FASTENERS USING A HEX WRENCH OR IMPACT DRIVER.

STEP 3: FINAL INSTALLATION

3-1. INSTALL SHIM **(COMPONENT ⑦)**
*PLACE A WOOD SHIM BETWEEN THE LOWER HINGE **(COMPONENT ③)** AND THE DOOR PANEL **(SEE FIGURE 3-A)**.
3-2. BEARING ADJUSTMENT & TESTING
*TIGHTEN THE ADJUSTMENT SCREW ON THE NEEDLE ROLLER BEARING **(COMPONENT ⑤)**.
*REMOVE THE SHIM AND TEST THE SWINGING DOOR FOR SMOOTH OPERATION.
*SECURE THE LOCKING SET SCREW ON THE BEARING ONCE PROPER FUNCTION IS CONFIRMED.
3-3. SAFETY SCREW INSTALLATION
*LOCATE THE PRE-MARKED DRILL POINT ON THE NEEDLE ROLLER BEARING **(COMPONENT ⑤)**.
*DRILL A PILOT HOLE USING A 5mm DRILL BIT.
*NSTALL THE SECURITY SCREW INTO THE BEARING **(SEE FIGURE 3-B)**.
3-4. RUBBER PROTECTIVE COVER INSTALLATION
*ATTACH THE RUBBER PROTECTIVE COVER **(COMPONENT ⑥)** USING M4*8mm PAN HEAD MACHINE BOLTS **(SEE FIGURE 3-C)**.
3-5. TOP SEAL INSTALLATION
*SECURE THE TOP SEAL **(COMPONENT ⑧)** STRIP ALONG THE FRAME' S TOP CENTERLINE USING M5*25mm HEX HEAD SELF-TAPPING SCREWS **(SEE FIGURE 3-D)**.

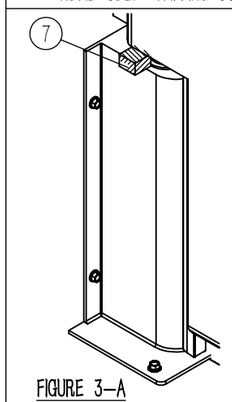

FIGURE 3-A

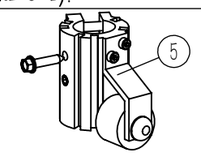

FIGURE 3-B

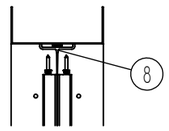

FIGURE 3-D

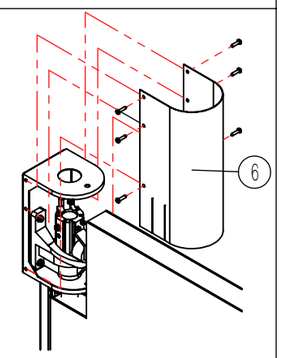

FIGURE 3-C