

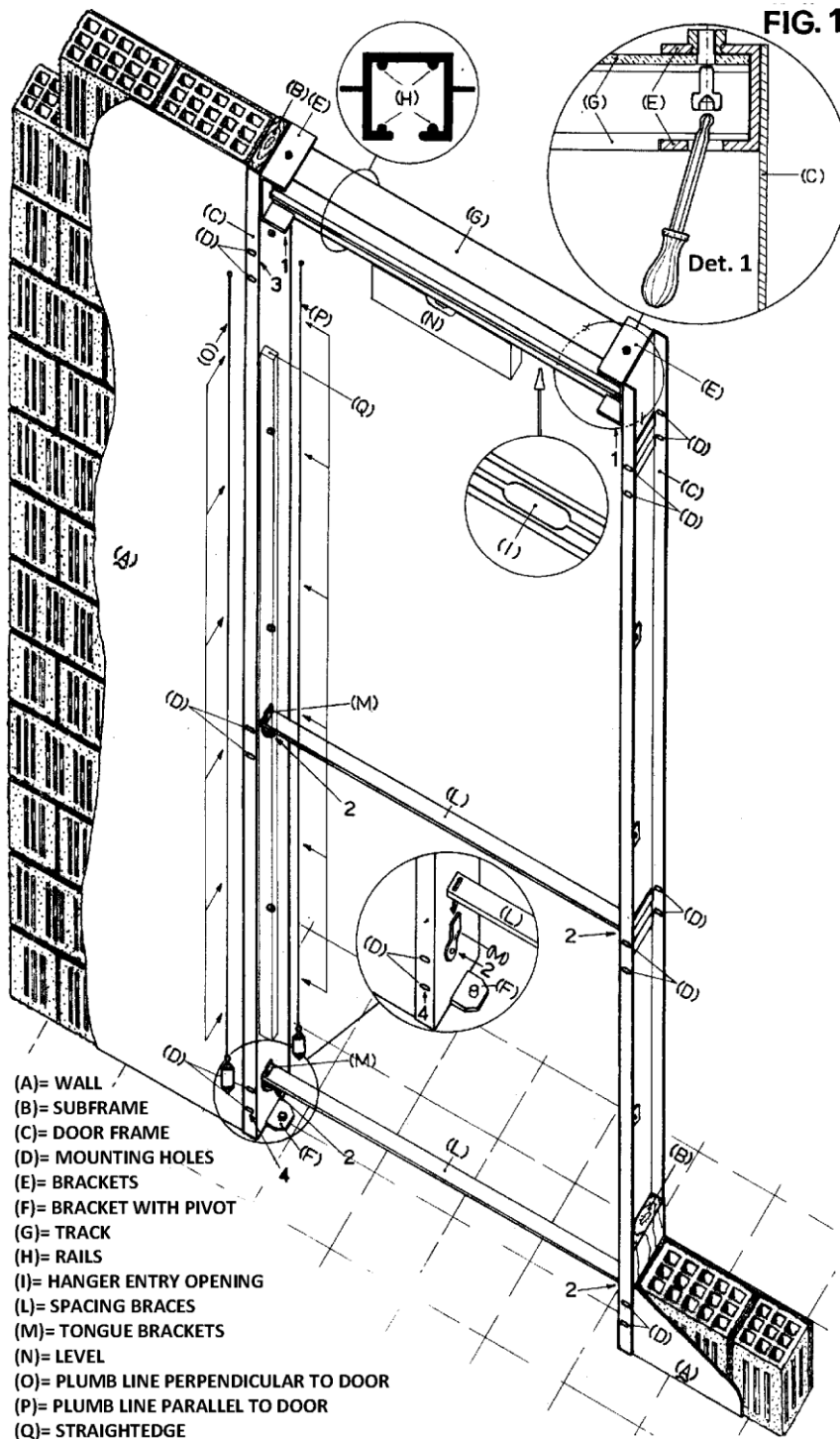
**INSTALLATION INSTRUCTIONS FOR THE "ERGON" ROTOTRANSLATING DOOR**

**INTRODUCTORY NOTE:** This innovative door design differs conceptually from traditional doors and, since it opens to either side, lacks the usual ledge against which the door stops. The tolerances in fitting the door are very strict and particular care must be taken when installing it to ensure proper door function. The instructions provided herein must be followed carefully by the installer. The first step is to ensure that the subframe has been correctly installed.

**INSTALLATION OF DOOR FRAME AND TRACK (FIG. 1):** The door frame consists of two galvanized sheet-metal profiles (C), each with two lips having three pairs of mounting holes (D). A C-shaped bracket (E) is fixed to the top of each frame member. A bracket with a pivot (F) is fixed to the bottom of one of the frame members.

The track (G) is an aluminum profile with rails (H) on which the hanger runs. An opening (I) has been cut in the bottom side of the track at one end to allow insertion of the hanger.

The installation of the frame and track is the most critical phase in installation and must be carried out very carefully as follows:



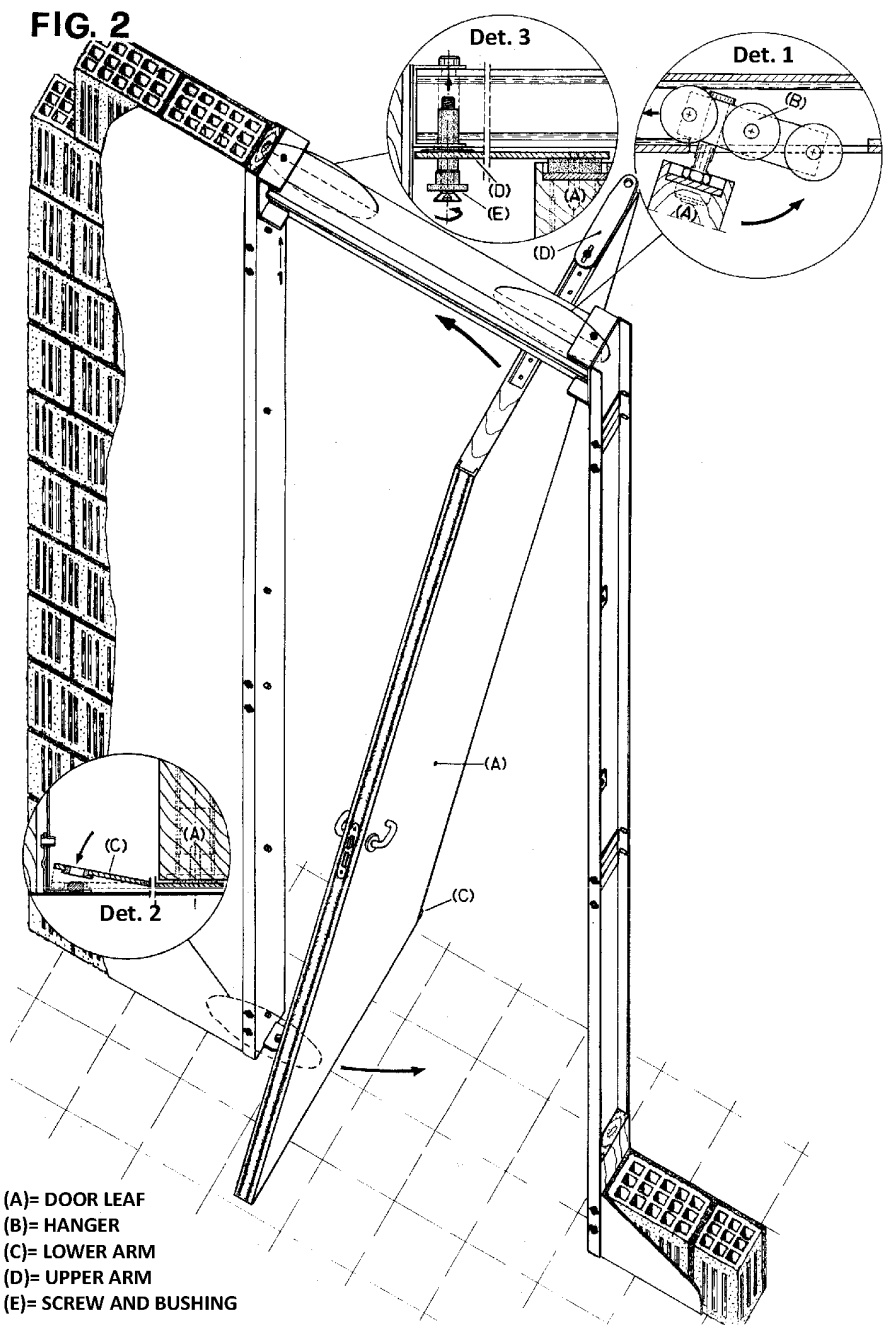
- a) Fit the two galvanized frame members (jambs) (C) to the subframe (B). The frame member with the pivot (F) at the bottom corresponds to the hinge jamb and must be installed on the side opposite to the door handle.
- b) Fit the track (G) into the brackets (E) at the top of each frame member (C). Make sure that the opening (I) for the hanger is on the side opposite the pivot (F) (i.e. opposite the hinge jamb) and facing downwards.
- c) Use a 6-mm hex key with a round head to fasten the track to the brackets using the screws provided (TCEI M8x10 ZN) as shown in **Det. 1** (Point 1).
- d) Screw the four tongue brackets (M) to the frame fixing holes in correspondence to the frame fixing holes in the middle and bottom of the frame (Points 2) using the screws provided (TCCR M6x12). Fit the two spacing braces (L) onto the tongue brackets.
- e) Make sure the track (G) is perfectly horizontal using a level (N). If necessary, level it by placing temporary shims under one of the galvanized frame members (C).
- f) Insert one of the screws provided (sheet-metal or wood screws, depending on type of subframe) through the top mounting hole (Point 3) in one of the frame members and fasten the frame member to the subframe (do not install a second screw through the other lip of the frame member).
- g) Ensure that the fastened frame member is vertical in both directions (perpendicular (O) and parallel (P) to the wall) using a plumb line. In some cases it may be necessary to remove the screw from Step f and insert a shim between the frame and the subframe to properly align the frame member.

- h) Once the frame member is perfectly vertical in both directions, install the other screw at the top and fasten it at the bottom (Point 4) (same lip as in Step f) using the screws provided, making sure that the frame member is still perfectly vertical after the screws have been tightened.
- i) Before tightening the screws in the middle holes (same lip as in Step f), use a straightedge (Q) laid against the inside of the door frame to ensure that the frame member is perfectly straight. If not, use pressure to straighten the frame member and then tighten the screws to fix it in that position.
- j) Repeat Steps f through i for the other frame member, fixing it to the same side of the subframe as its counterpart. This step is facilitated by the two spacing braces and the track, which will keep the two frame members parallel across the door frame. It will thus only be necessary to use the plumb line to make sure the frame member is vertical in the perpendicular direction.
- k) Install all the screws in the other lip of each frame member. Use shims if necessary to fill any gap between frame member and subframe to prevent the frame member from deforming.
- l) Remove the two spacing braces and the four tongue brackets that held them (Step d).

**INSTALLING THE DOOR LEAF (FIG. 2):** The door leaf (A) is provided with its hardware already installed. This phase involves inserting the hanger (B) into the track and attaching the upper (C) and lower (D) arms to the door frame as follows:

- a) Two people grasp the door (A) on either side and position it in the door frame, perpendicular to the wall. The door must be tipped so that the bottom of the door is close to the pivot at the bottom of the frame. The door must be tipped in such a way that the hanger (B) can enter the opening in the track. The shorter side of the hanger (with respect to the mounting pivot) must be oriented towards the hinge jamb and thus enter the opening first (Det. 1).
- b) As soon as the first two wheels of the hanger are on the rails, straighten the door and slide it towards the middle of the track. The door will now hang and can be released.
- c) Remove the screw (TCEI M8×10 ZN) holding the track to the hinge jamb (Point 1).
- d) Remove the packaging to free the arms and slide the door far enough so that the hole at the end of the lower arm (C) (grease before mounting) fits over the pivot (Det. 2).
- e) Insert the screw (TSPEI M8×70 ZN) with its bushing (E) into the hole (appropriately greased) at the end of the upper arm (D) (Det. 3) and thread into the hole previously occupied by the screw removed in Step c. Tighten.

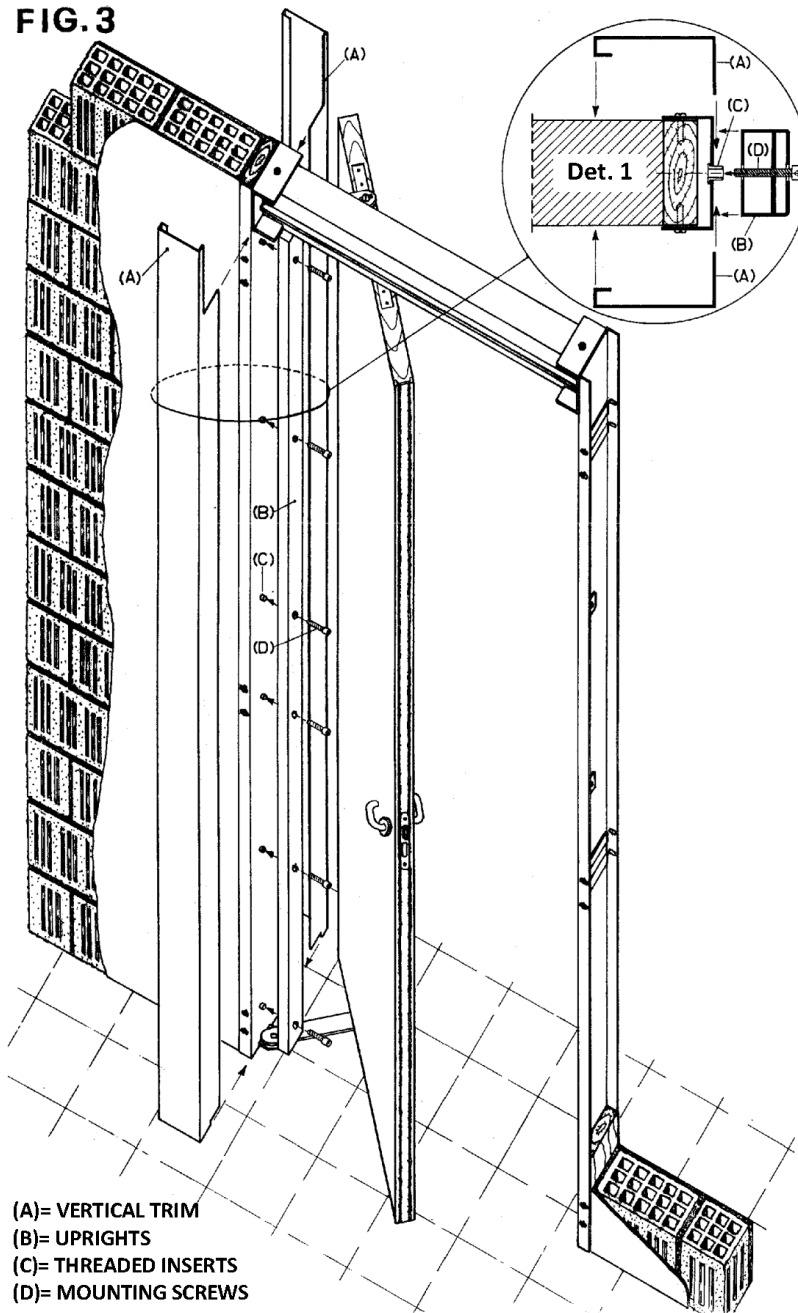
This completes installation of the door leaf. When the door handle is pushed to open or close the door, the door moves with its characteristic rotating-sliding motion.



(A)= DOOR LEAF  
(B)= HANGER  
(C)= LOWER ARM  
(D)= UPPER ARM  
(E)= SCREW AND BUSHING

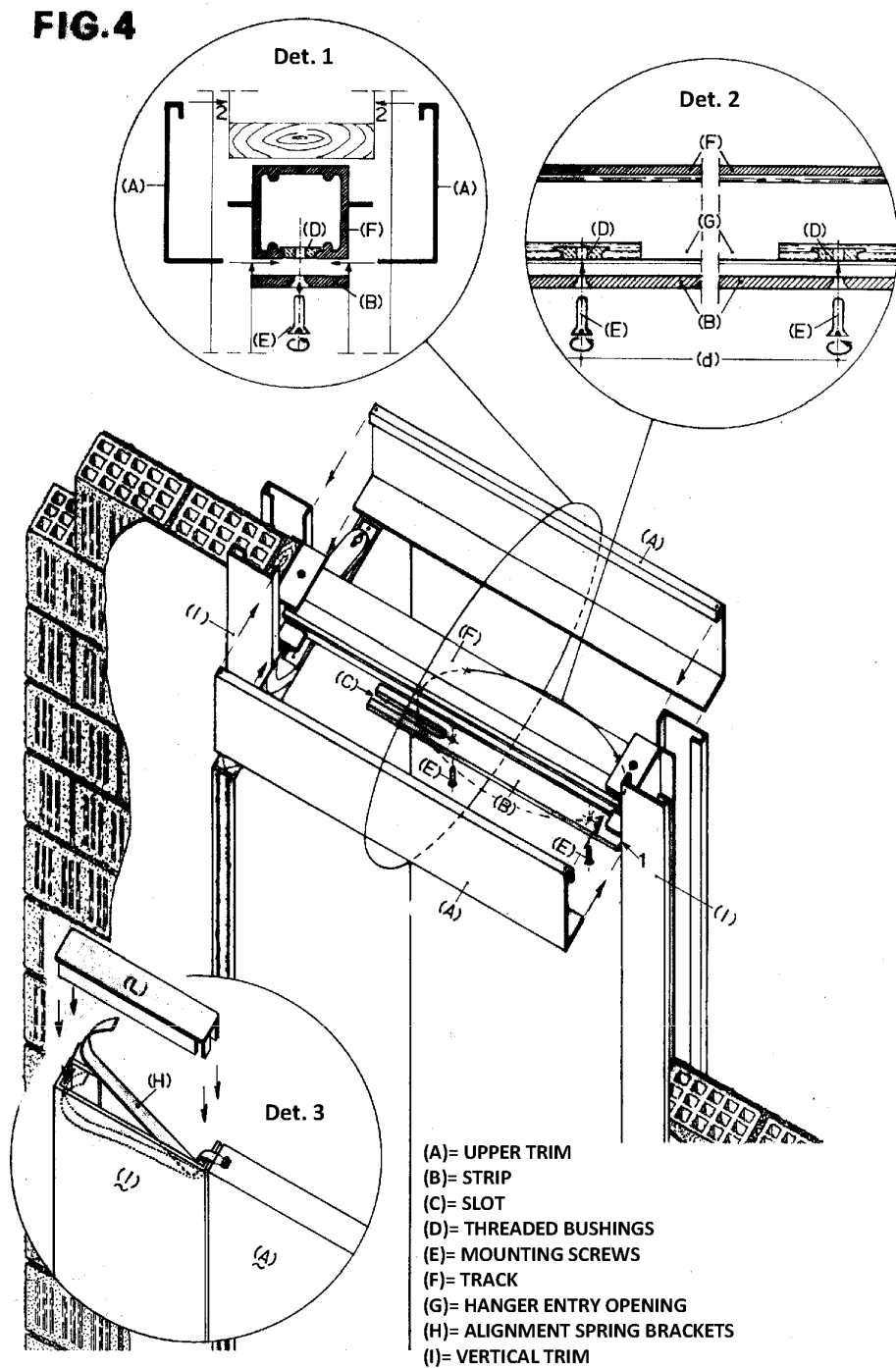
**INSTALLATION OF VERTICAL TRIM (FIG. 3):** The vertical trim comprises 2 pairs of sheet-metal profiles (A) that are mirror images of one another and 2 aluminum profiles or "uprights" (B). One of the two uprights is slightly longer than the other and has a plastic strike plate for the door latch when the door is closed. This upright must be installed on the door-latch side of the door frame. Both uprights (B) have a long strip of felt to ensure a tight fit against the door frame. Install the door trim as follows:

- a) Open the door part way. Place the shorter aluminum upright (B), lacking the plastic strike plate, centrally along the hinge-jamb side with the felt strip against the jamb. The upright is reversible: either end can be up.
- b) Line up the holes in the upright with the threaded holes (C) in the door frame.
- c) Put the screws (TCEI M6× 25 ZN) (D) in the holes and finger tighten, leaving a gap of approximately 3 mm between the door frame and the upright.
- d) Slide the edges of both pieces of sheet-metal trim (A) into the gap until the folded edge of the trim is resting against the wall on either side (Det. 1).
- e) Tighten the screws and cover the holes with the provided plastic plugs.
- f) Install the other upright in a similar fashion, noting that this one is not reversible and the upright must be placed so that the plastic striker plate lines up with the door latch. Please note that the screw used to fasten the plastic striker plate (TCEI M6 × 16 BURNISHED) is different from all the others.



**INSTALLATION OF THE UPPER TRIM (FIG. 4):** The upper trim consists of: 2 sheet-metal profiles (A) that are mirror images of one another; a strip (B) with a slot (C) along which the shaft connecting the door to the hanger can move; 2 threaded bushings (D) and 2 bolts (E) used to anchor the strip to the track (F). The alignment of the side trim (I) with the upper trim (A) is ensured by spring brackets (H) at the four top corners (Det. 3). Install the upper trim as follows:

- a) Open the door and place the two threaded bushings (D) between the rounded edges of the track rails (F) on either side of the opening (G) for the hanger (Det. 1 and 2). The flats must face upwards to prevent the bushing from turning. The distance (d) (Det. 2) between the centers of the two bushings must be equal to that between the two holes in the slotted strip.
- b) Place the strip against the lower side of the track with the slot towards the door and the countersunk screw holes facing downwards.
- c) Insert the screws (TSPEI M5 × 12 ZN) (E) through the holes in the strip and into the bushings. Finger tighten, leaving a small gap between the track and the strip.
- d) Slide the strip (B) along the track (F) so that the non-slotted end touches the vertical trim on the latch side of the frame (Point 1).
- e) Slide the edges of the two sheet-metal profiles into the gap until their edges touch the wall (Points 2).
- f) Tighten the screws (E).
- g) Put a spring bracket (H) at all four top corners between the side trim (I) and the upper trim (A) and close the hole with the provided plastic plugs (L) (Det. 3).



**FINAL STEPS, ADJUSTMENT AND CHECKS:** Manufacturer's settings provide clearance of 2 mm between the top of the door and the slotted strip and 4-4.5 mm between the vertical edges of the door and the vertical trim. If this is not the case or the door actually touches any part of the trim, check the horizontal alignment of the track and/or the vertical alignment of the door frame. To change the vertical position of the door, loosen the locknut on the pivot connecting the door to the hanger, tighten or loosen the pivot to raise or lower the door, respectively, and then fix it in position by retightening the locknut. Should the door be classifiable as an "extraneous conducting part" per CEI 64-8 because it may give rise to a ground loop, it must be connected to the building earthing system.