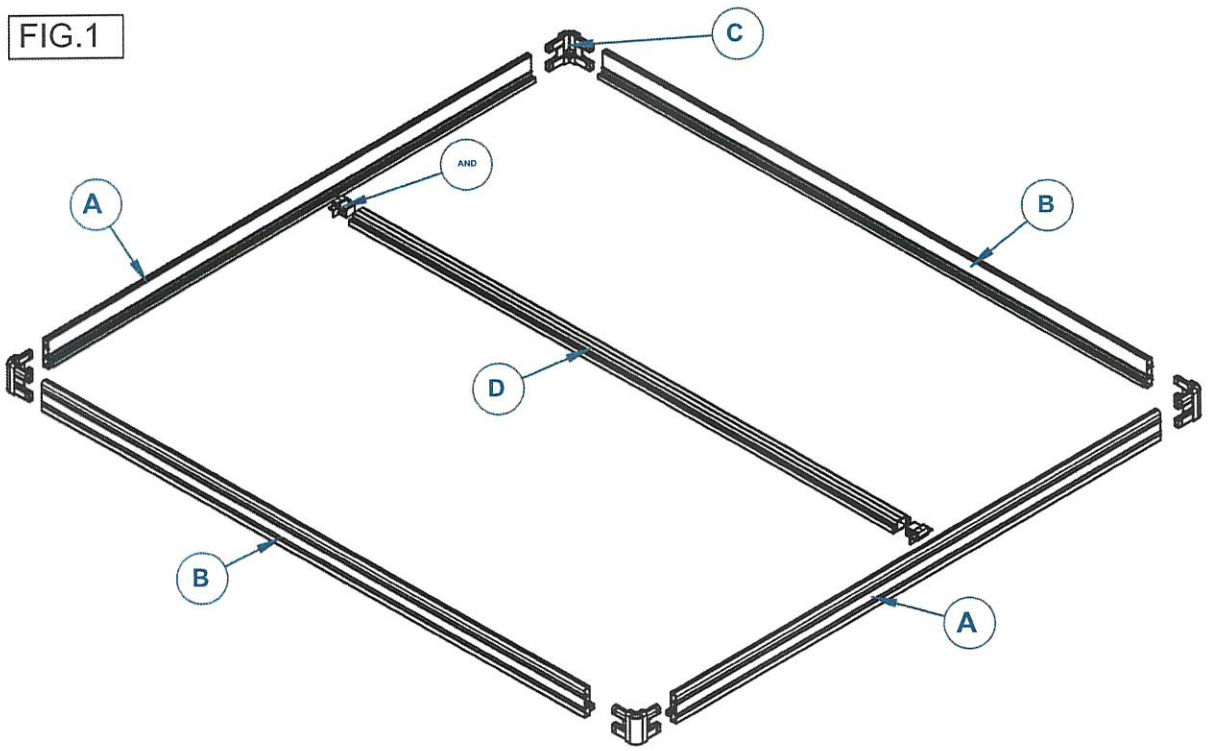
Machine Translated by Google

1. ASSEMBLY OF THE PERIMETER FRAME AND CENTRAL CROSSBEAM

Assembly of perimeter frame with corners and central crosspiece with ends:
1 - use the perimeter dies cut to size 2x L.1926 (Fig.1A) 2x L.1526 (Fig.1B)
2 - prepare the 4 90° angles (Fig.1C)
3 - use the central crosspiece (Fig.1D) and its respective terminals (fig.1E)

FIG.1



Insert the angle brackets (Fig.2A) inside the perimeter aluminium profile (Fig.2B) and secure them with 3 screws on each side.
The screws must be screwed into the upper insert of the angle (Fig. 3A), and the central insert (Fig. 3B), on both sides of the joint.
Repeat the steps for all 4 corners.

FIG.2

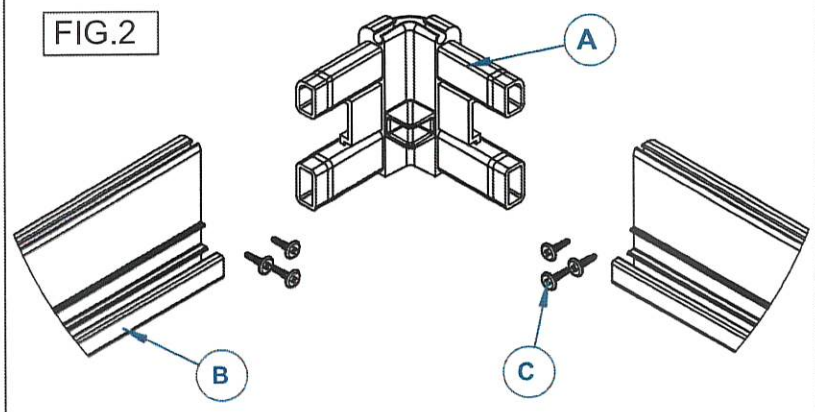
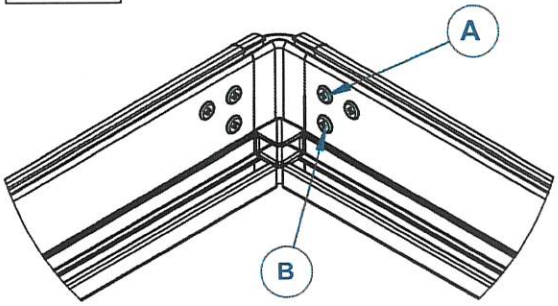


FIG.3



This drawing is an exclusive project belonging and be other company supplies associated to or design company.

Machine Translated by Google

Insert the terminal (Fig.4A) inside the cross profile (Fig. 4B).
Join with screws (Fig.4C) on the side of the crosspiece, making sure to screw into the side of the terminal (Fig. 4A) where the solid plastic wall is present.
Final steps Fig.5

FIG.4

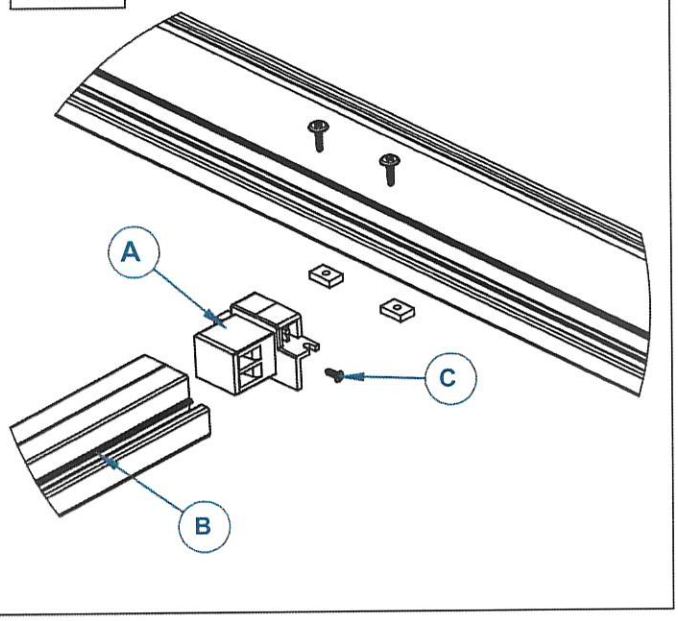
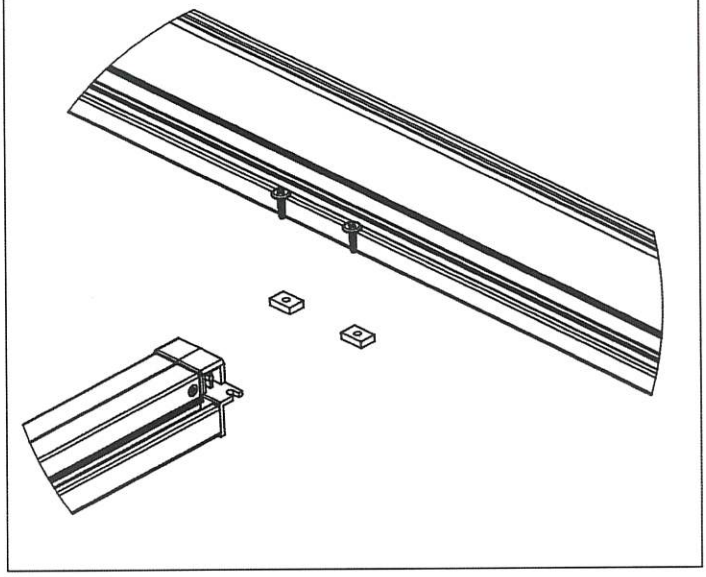


FIG.5



Slide the plates (Fig.6A) into the seat on the perimeter profile (Fig.6E) and snap the terminal connected to the crosspiece into place.
Using the screws (Fig.6B), fix the crosspiece to the perimeter profile, screwing it onto the appropriate plates (Fig. 6A) previously inserted.

FIG.6

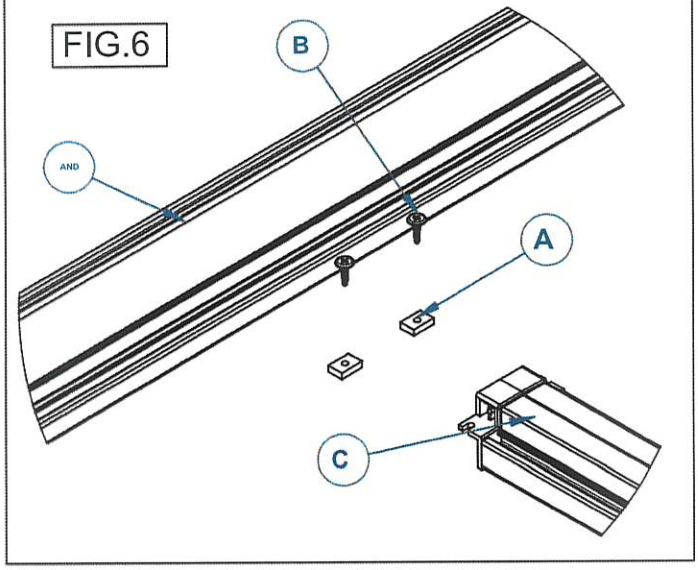
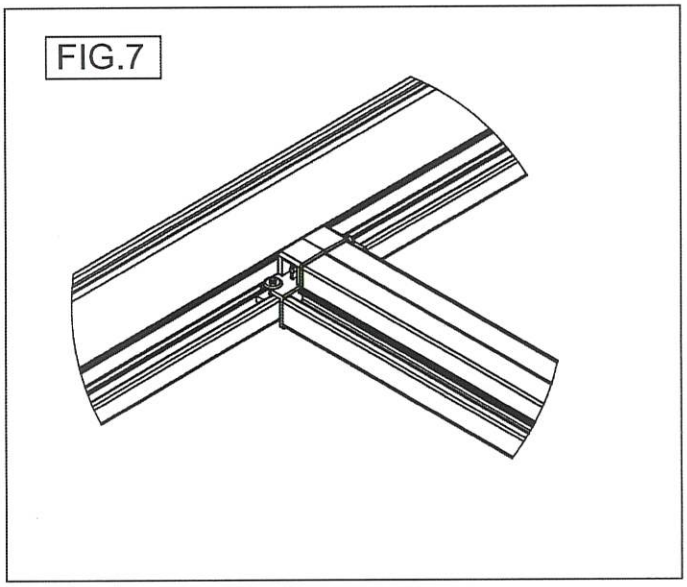


FIG.7



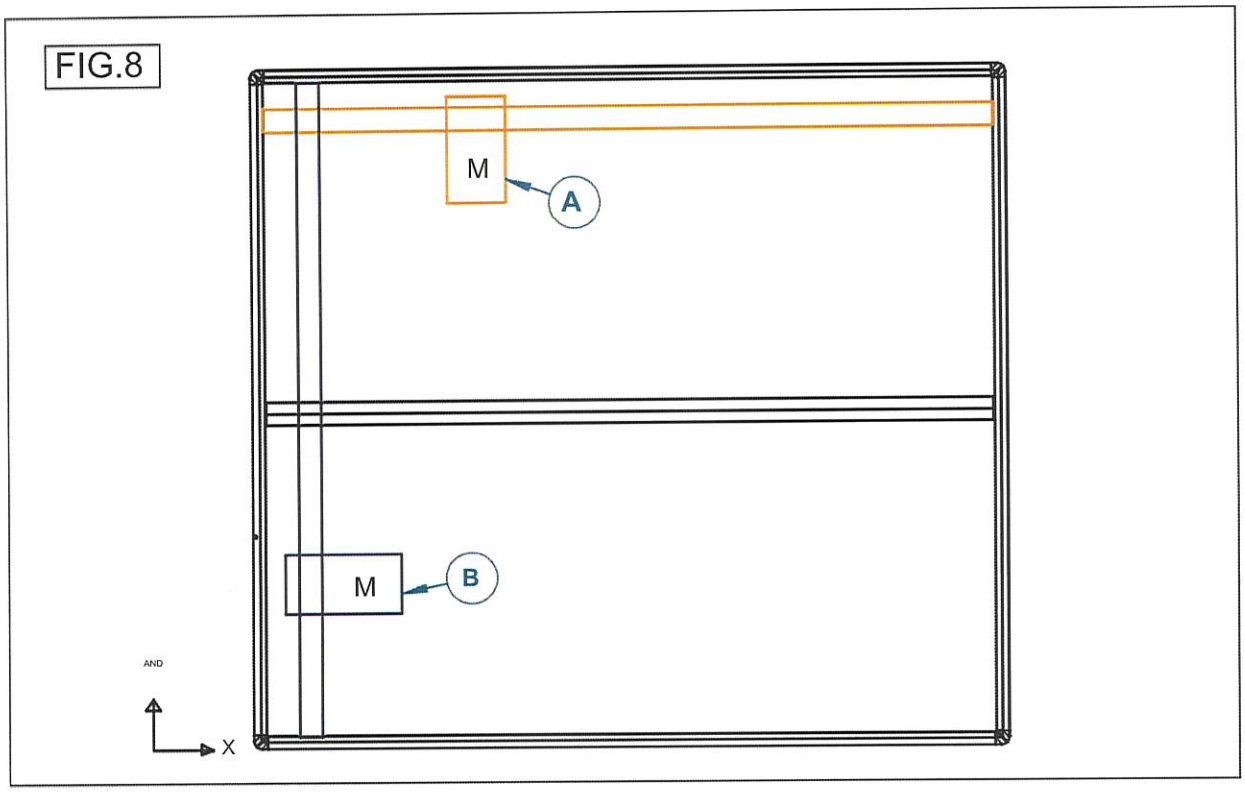
This drawing is an exclusive project belonging and be other company supplies associated to or design company.

Machine Translated by Google

2. ENGINE POSITION AND ASSEMBLY

The motor position can be defined according to your needs according to 2 configurations; configuration A (along the x-axis of the bed) and configuration B (along the Y-axis of the bed)
In both configurations the motor can slide along the size of the bed;
Configuration A: The motor can be positioned anywhere on the X-axis, the Y-axis is fixed.
Configuration B: The motor can be positioned anywhere on the Y-axis, except near the central crosspiece, the X-axis is fixed.

FIG.8



Attach the plate (Fig.9B) to the engine (Fig.9A) with cylindrical head screws (Fig.9C) and toothed washers (Fig.9D). Engine assembled with plate (Fig.10)

FIG.9

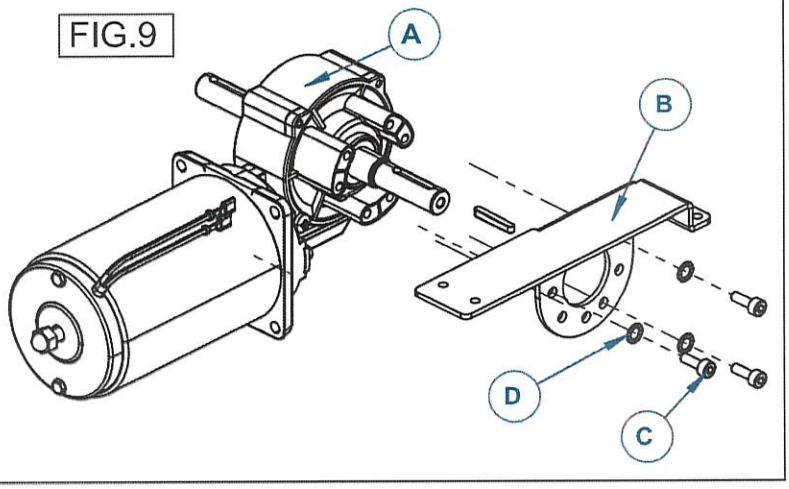
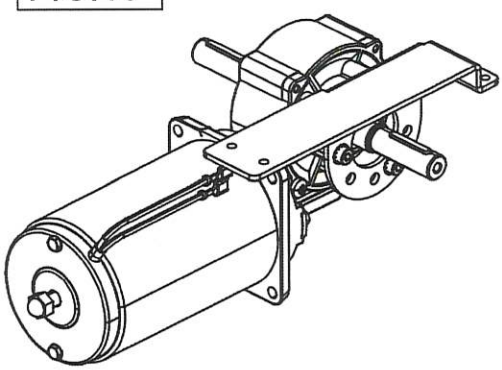


FIG.10



This drawing is an exclusive project belonging and be other company supplies associated to or design company.

Machine Translated by Google

Fit the crosspiece (Fig. 11A) to secure the engine compartment to the perimeter frame.

NB The position of the crosspiece depends on the chosen position of the engine chosen based on configurations A and B and your needs.
Position the crosspiece correctly.

Insert the plates (Fig. 12A) inside the central crosspiece (Fig.12E) and the perimeter profile (Fig. 12D) and fix the crosspiece (Fig.12C) with the correct screws (Fig.12B)

FIG.11

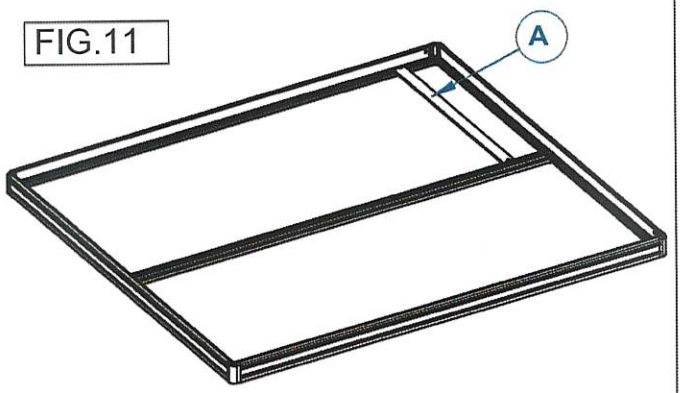
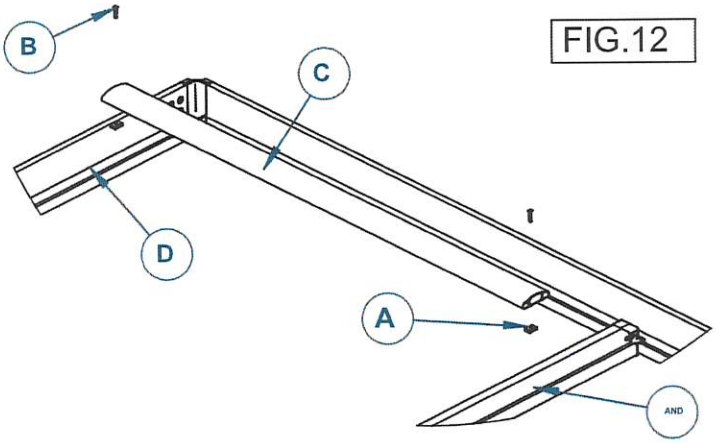


FIG.12



Fix the motor (Fig. 13A) by screwing it onto the crosspiece (Fig. 13C) and onto the perimeter profile (Fig. 13D) using the 4 screws supplied (Fig. 13B)

FIG.13

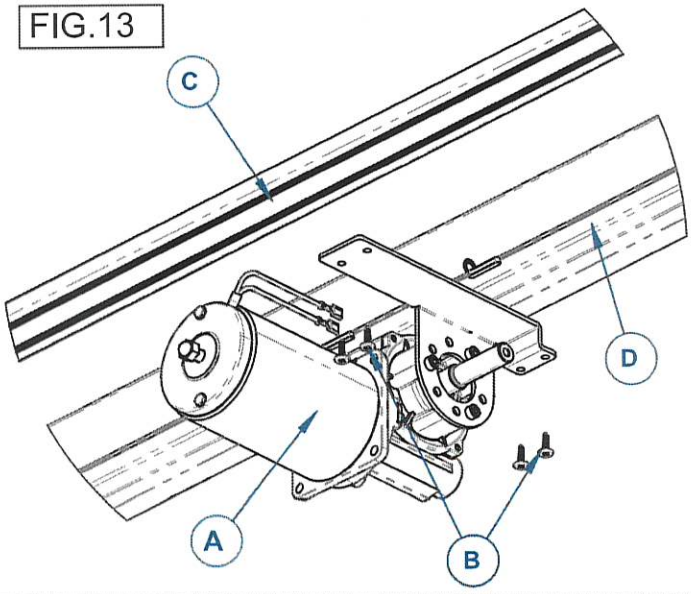
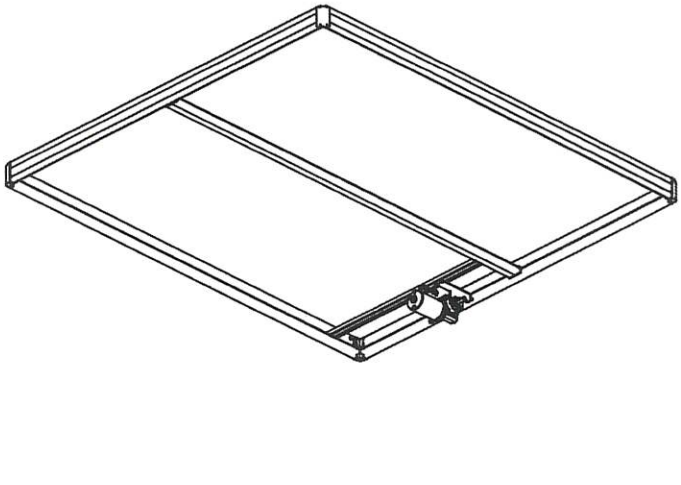


FIG.14



This drawing is an exclusive project belonging and be other company supplier associated to company or design company.

Machine Translated by Google

The way the engine is fixed to the crosspiece depends on the position and configuration of the engine chosen in the previous steps:
Configuration 'A': position in Fig.16
Configuration 'B': Position in Fig.15

FIG.15

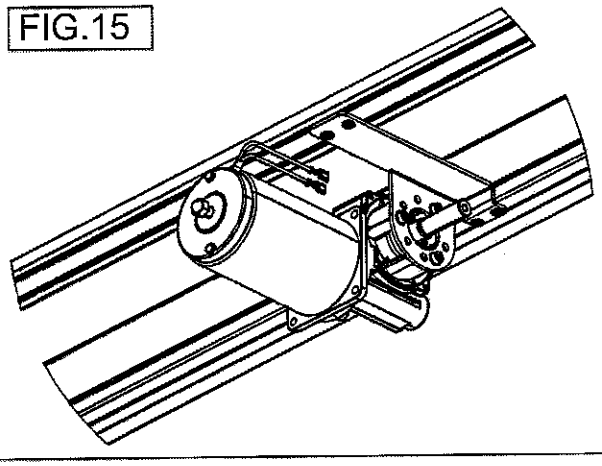
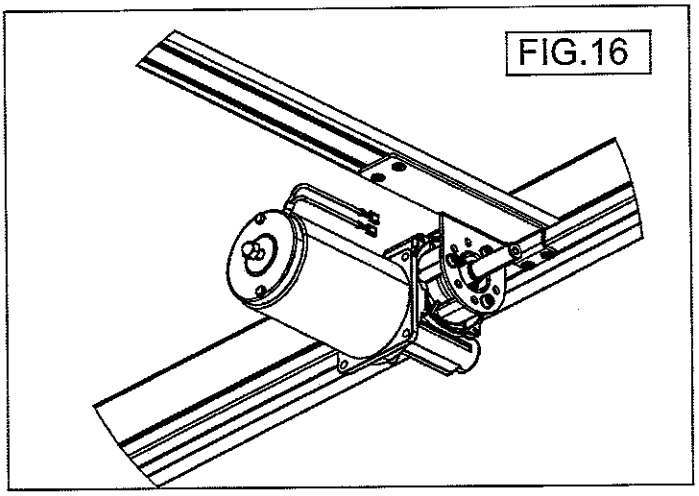


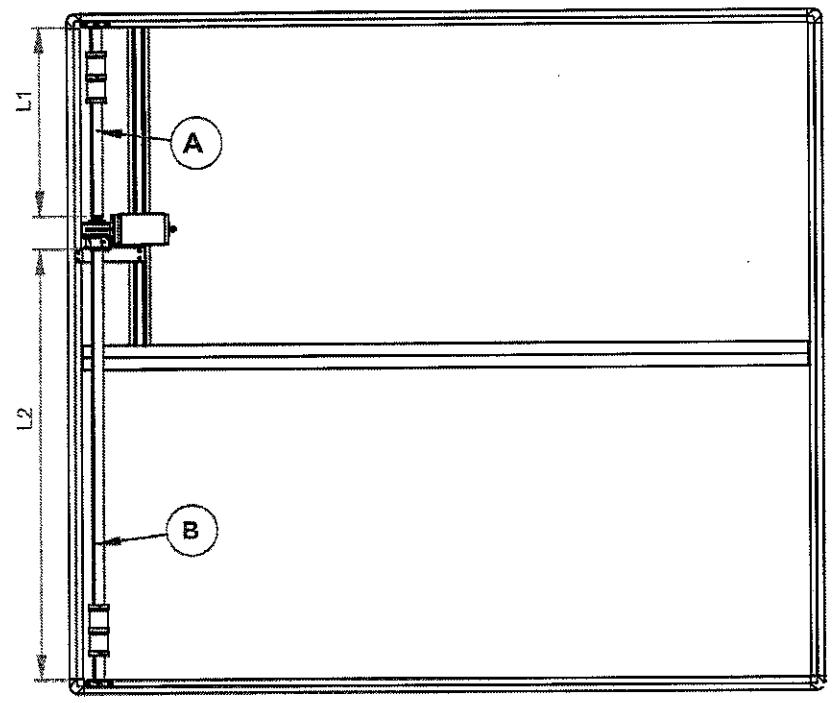
FIG.16

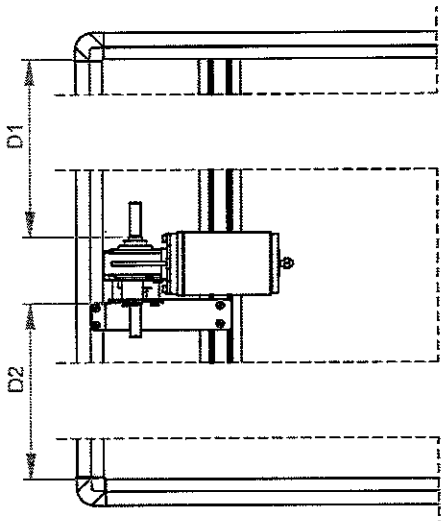


3. ASSEMBLY OF BELTS AND DRIVEN SHAFT

The assembly of the belts and the driven shaft begins with cutting the shaft respecting the dimensions indicated in FIG.17
cut the driven shaft into 2 segments of length L1=D1-2mm (Fig. 17A) and L2=D2-2mm (Fig. 17B)

FIG.17





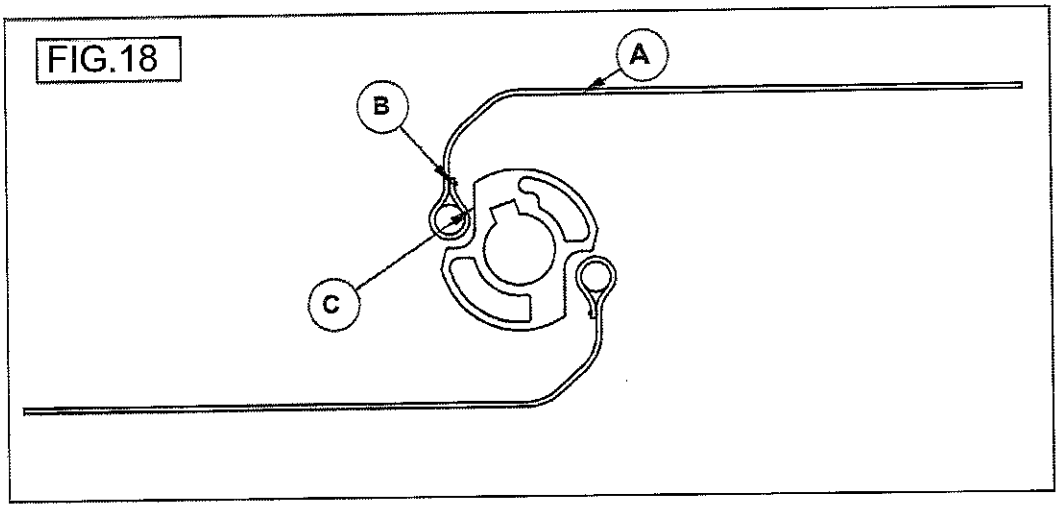
This drawing is an exclusive project belonging and be other company supplier associated to or design company.

Machine Translated by Google

Before proceeding with the assembly of the belts on the shaft, make sure you have including the points listed below, which will be essential for the correct functioning of the lifting system:

1 - Direction of insertion of the belts into the crankshaft:
The strap (Fig.18A) must be inserted with the stitching (Fig. 18B) facing the flat part (Fig.18C) of the shaft.

FIG.18



2 - Belts exit from the shaft:
The direction of the belts (Fig.19) exiting the driven shaft (Fig.19B) holding the engine to the right of the shaft (Fig.20A) seen from the side

FIG.19

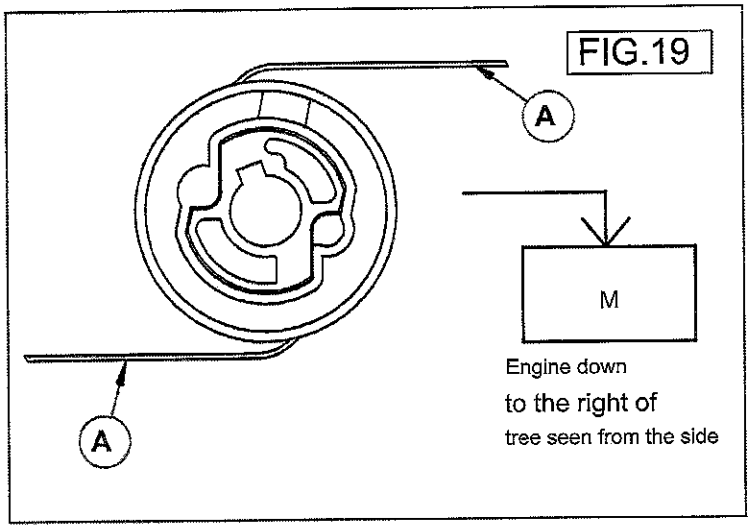
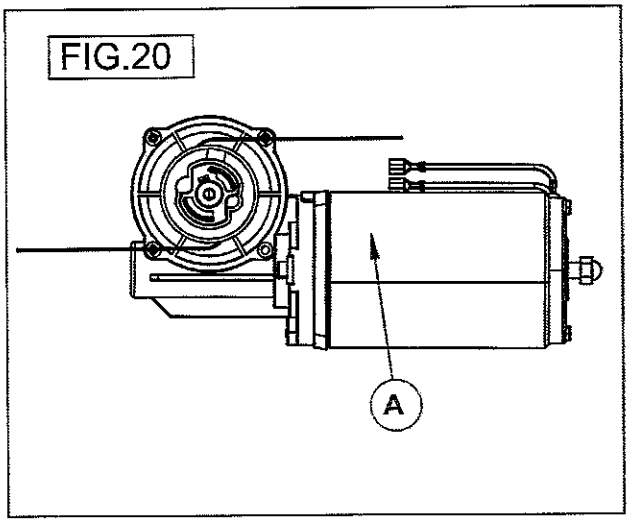


FIG.20



This drawing is an exclusive project belonging and be other company, supplies associated to or design company.

Machine Translated by Google

Fit the belts starting from the crankshaft (Fig.24A), insert the plastic ring (Fig.24B) to the desired position of the belts, tighten the grub screw on the plastic ring to secure it to the shaft.
Insert the metal pin (Fig.24C) into the strap eyelet (Fig.24D).

FIG.24

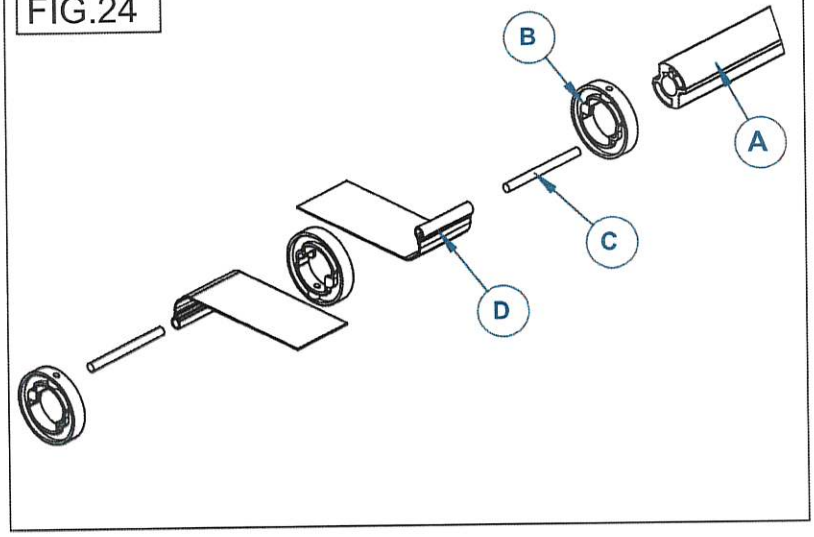
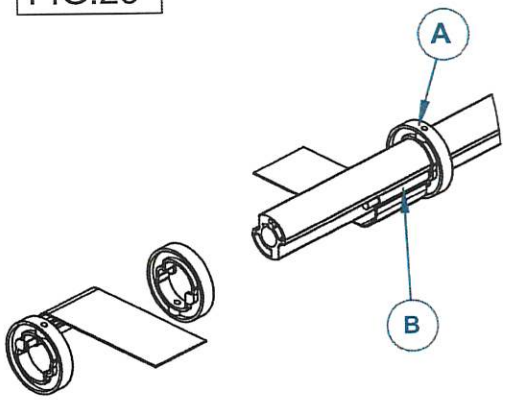


FIG.25



Proceed by inserting the metal pin (Fig. 25B) into the appropriate seat on the plastic ring (Fig. 25A), close the strap with a second ring (Fig. 26C) and secure with the grub screw.
Proceed to fit the second belt following the same steps (Fig 27).

FIG.26

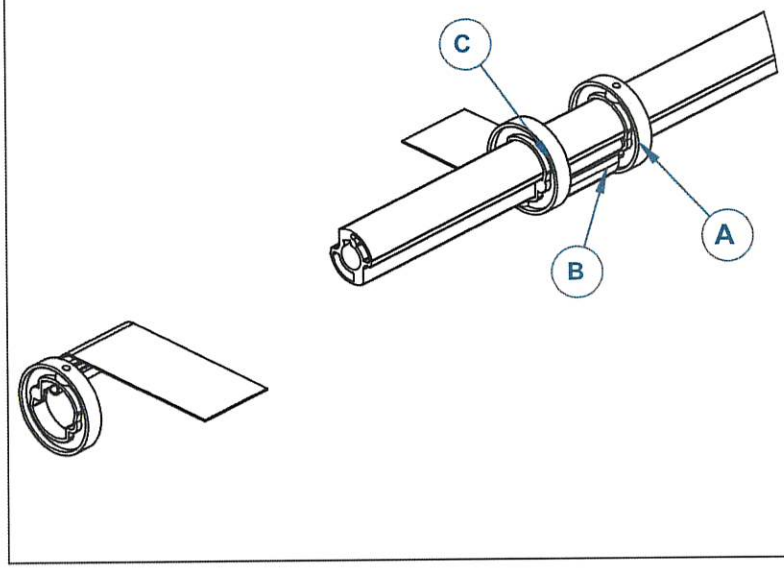
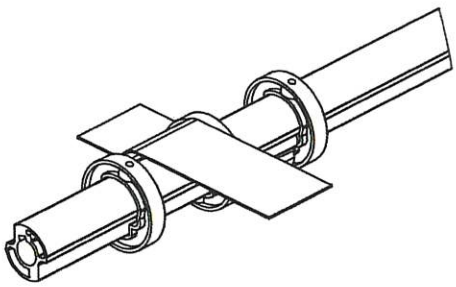


FIG.27



This drawing is an exclusive project belonging and be other company supplies associated to or design company.

Machine Translated by Google

3 - position of the Long / Short belts in relation to the engine (Fig. 22):
The long straps (Fig.21A) are to be positioned externally.
The short straps (Fig.21B) are positioned internally.

The short belt exits the shaft at the bottom while the long belt exits the shaft at the top (Fig. 23)

FIG.21

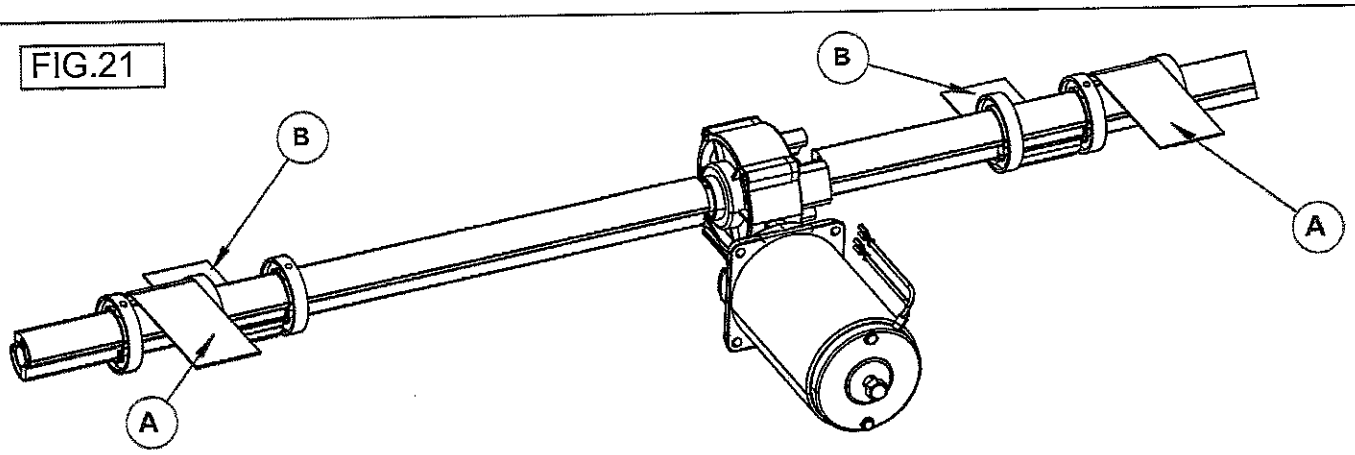


FIG.22

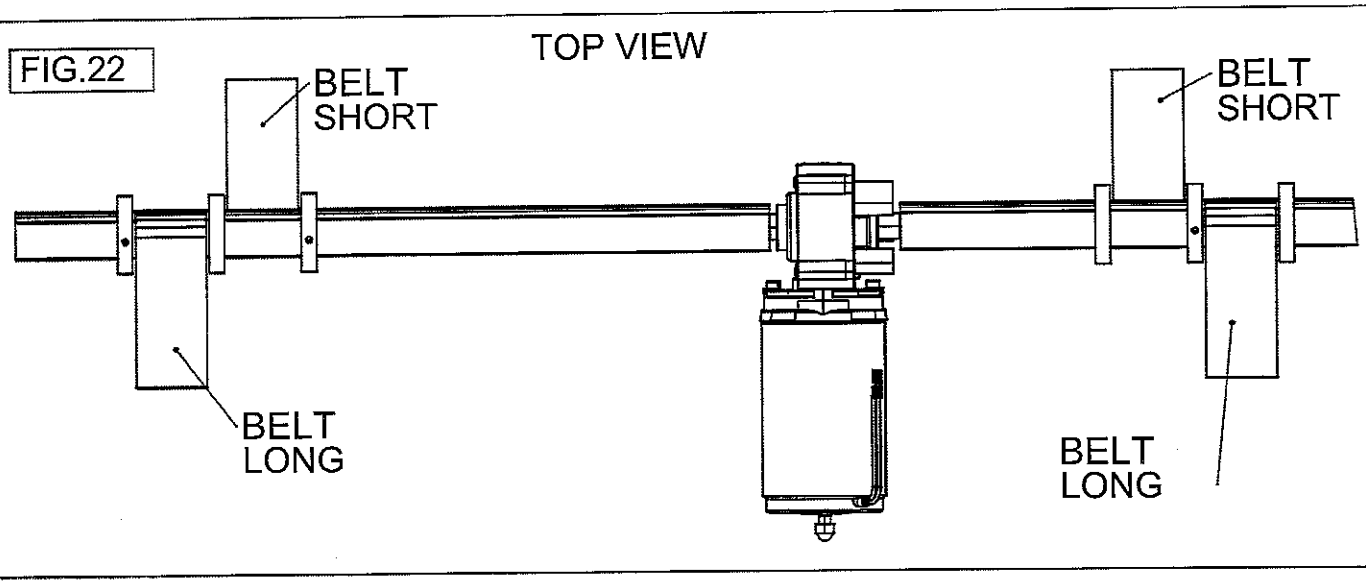
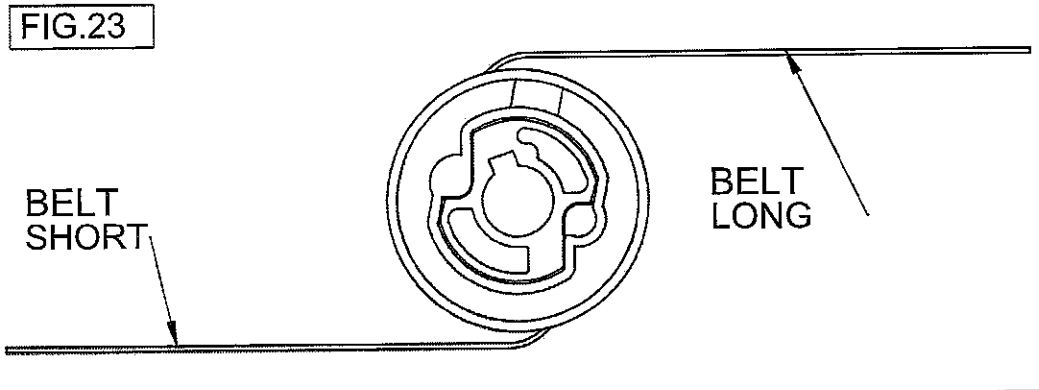


FIG.23



This drawing is an exclusive project belonging and be other company, supplier associated to or design company.

Machine Translated by Google

After having fitted the straps on the 2 half-shafts, proceed to fit the shafts onto the bed frame.

Insert the end of the shaft (Fig. 28A) into the motor shaft (Fig. 28B) making sure that the key (Fig. 28C) is inserted in the correct direction inside the driven shaft, where the appropriate seat is located (Fig. 29A).
Assemble the pre-assembled rotation terminal (Fig. 30A) inside the free end of the driven shaft (Fig. 30B)

FIG.28

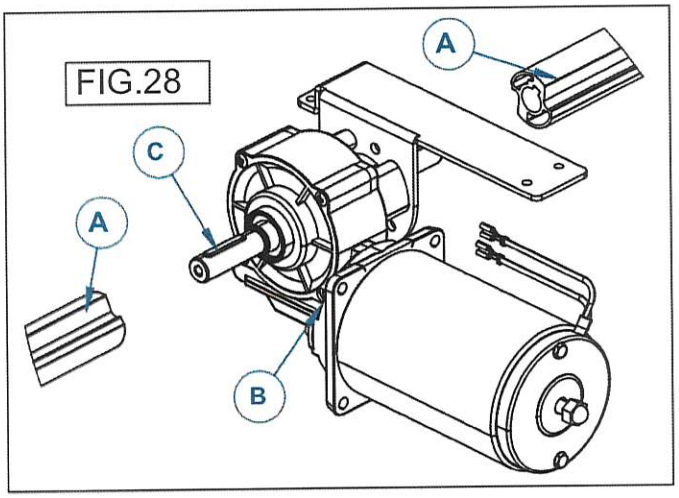


FIG.29

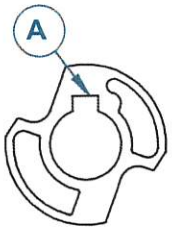
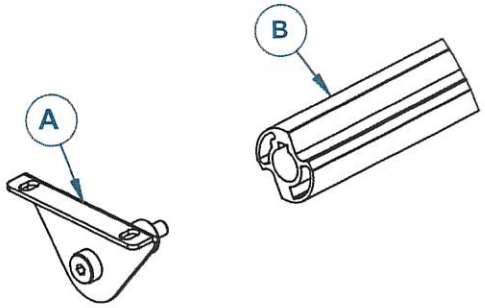


FIG.30



The assembly steps are to be carried out on the perimeter frame where the engine was previously mounted (Fig. 31).
Fix the end brackets (Fig. 30A) with screws to the perimeter frame profiles (Fig. 32-33).

FIG.31

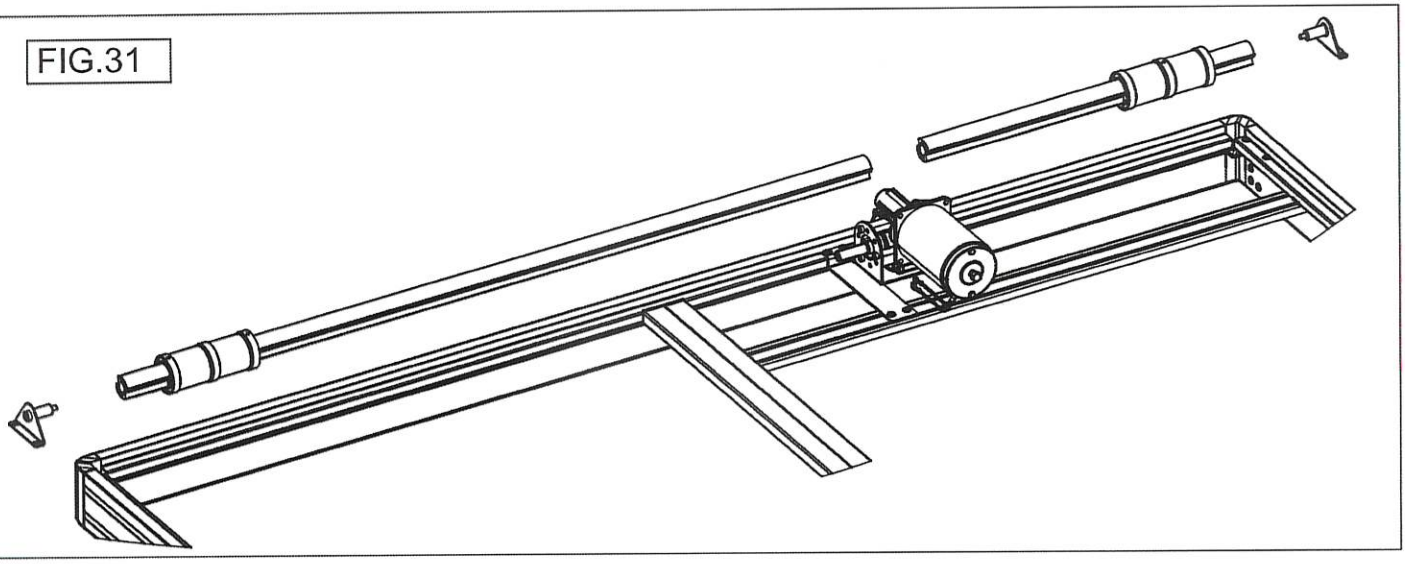


FIG.32

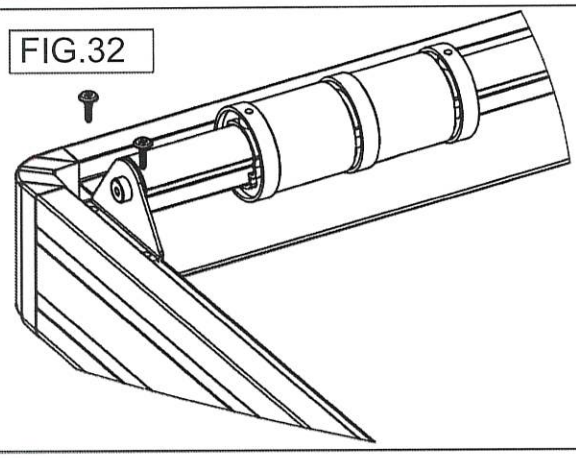
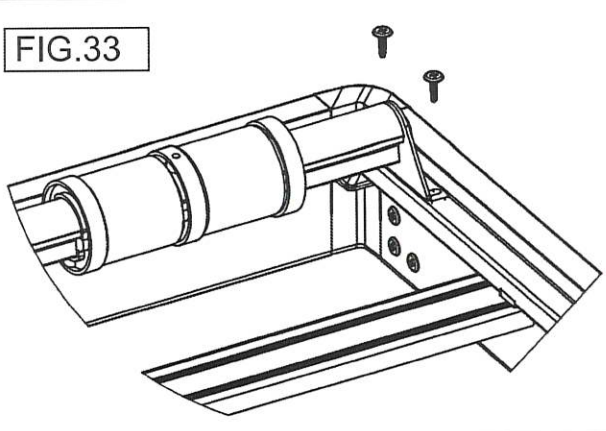


FIG.33



This drawing is an exclusive project belonging and be other company supplies associated to or design company.

Machine Translated by Google

ASSEMBLING THE BELT GUIDES

Once the driven shaft with the belts has been assembled, the belt guide is fitted which ensures the belts slide.

Position the belt loop (Fig.34A) in line with the belts (Fig. 34B) on the perimeter profile, making sure that the edge of the plastic part is flush with the perimeter profile (Fig. 35)

FIG.34

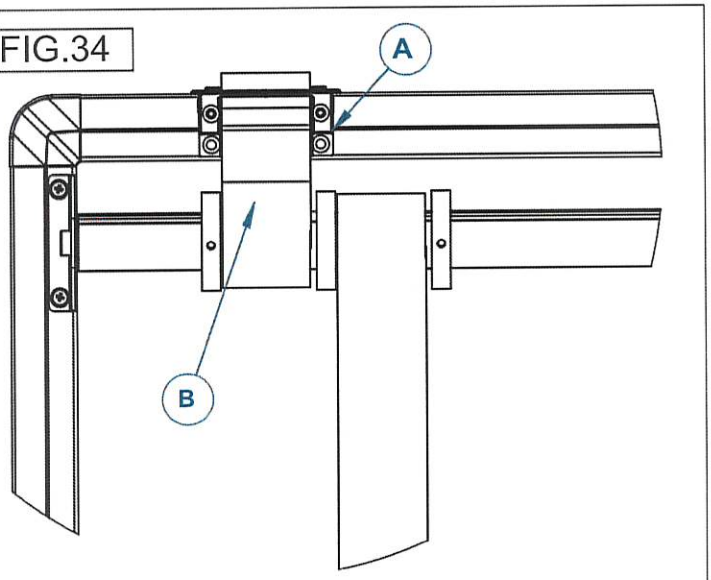
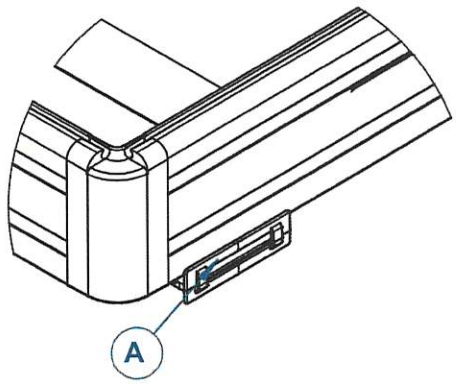


FIG.35



Fix the belt loop (Fig. 36A) in position on the aluminium profile, using the screws (Fig. 36B).
Insert the strap (Fig. 37A) inside the plastic component of the belt loop (Fig. 37B) in the appropriate slot.

Repeat steps for all 4 strap loops on the sides of the bed

FIG.36

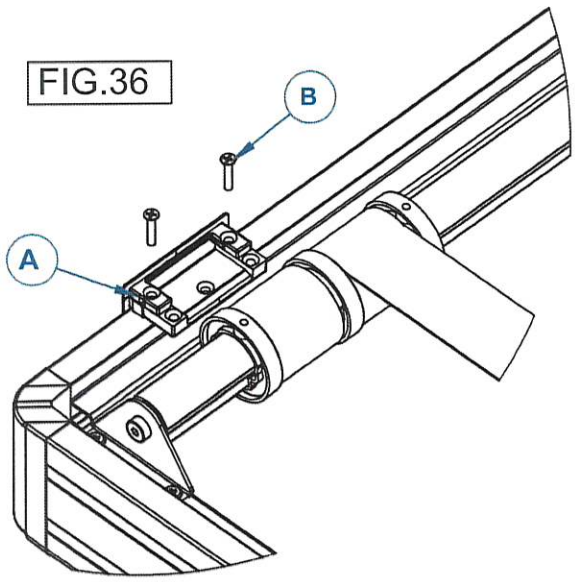
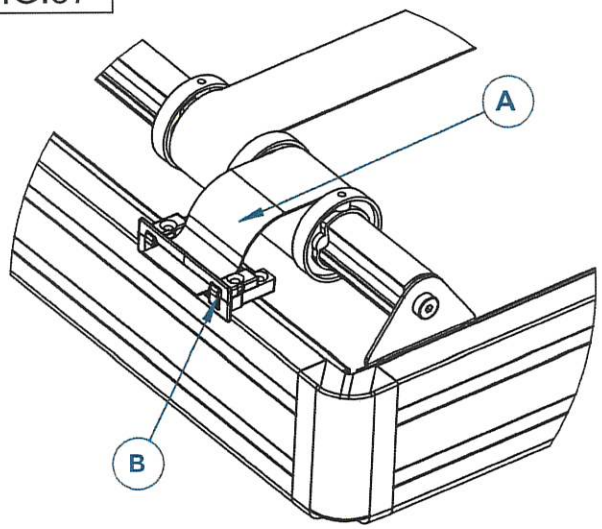


FIG.37

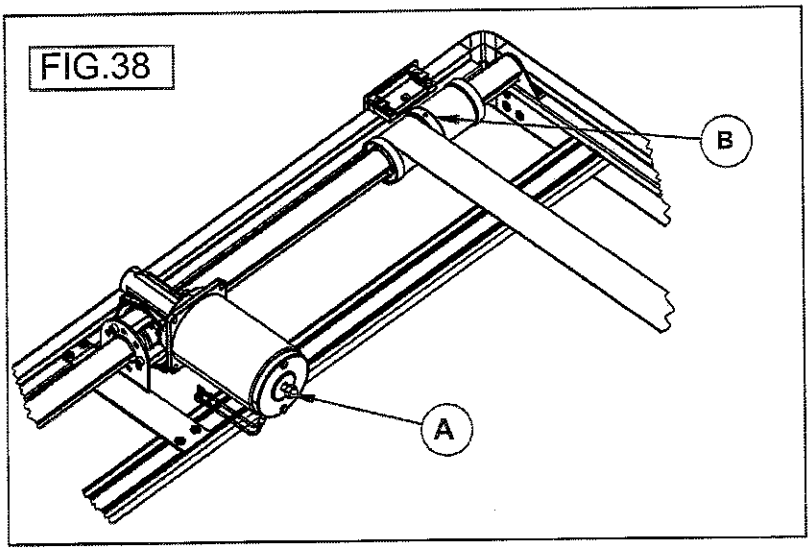


This drawing is an exclusive project belonging and be other company, supplies associated to or design company.

Machine Translated by Google

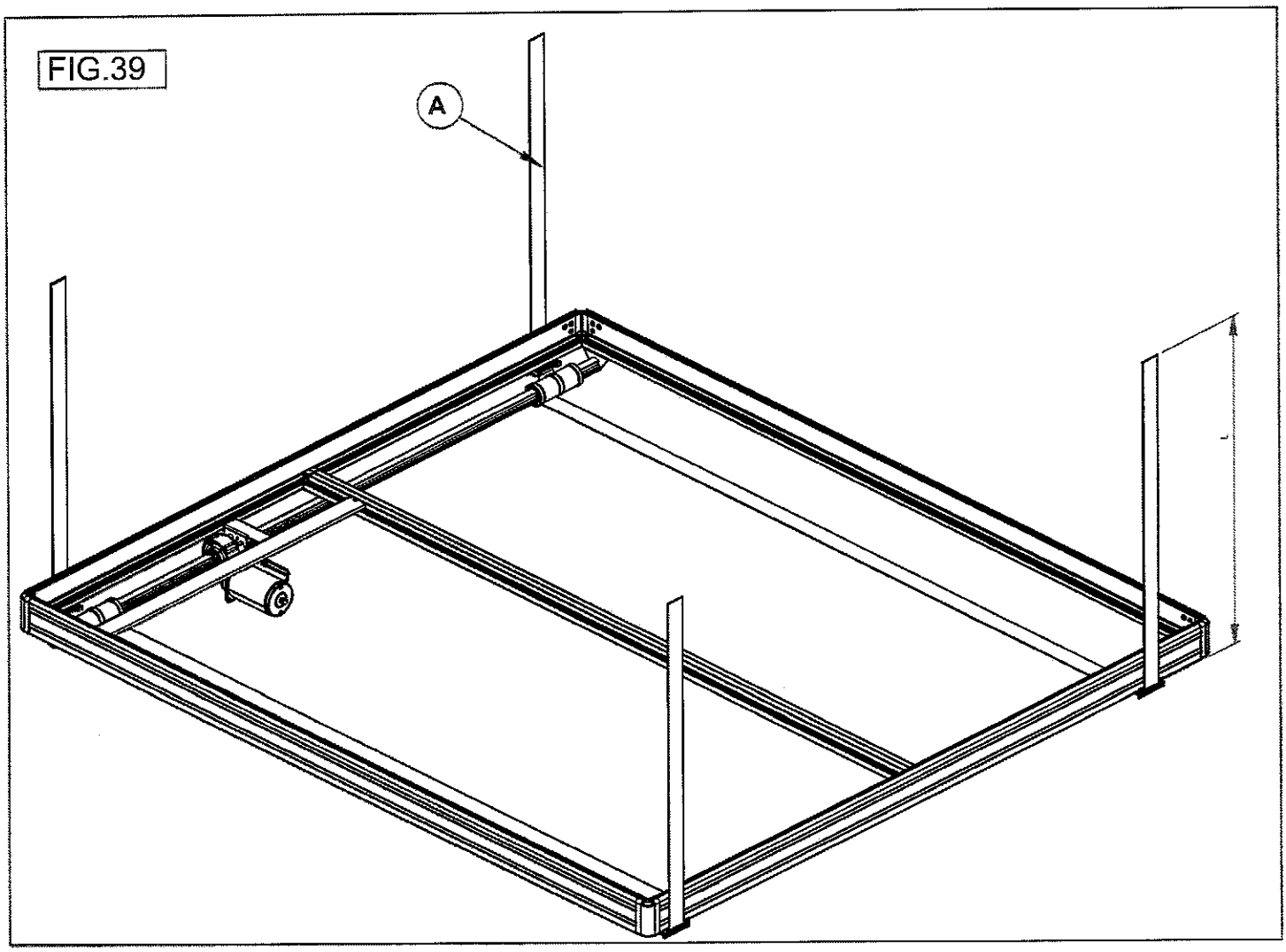
Once all the belts have been passed, use a wrench or drill to turn the motor control screw (Fig. 38A) so that the belts are wound onto the shaft for approximately 2 complete turns (Fig. 38B).

FIG.38



Finally make sure that the length 'L' at the ends is approximately the same on all 4 sides (Fig. 39A).

FIG.39



This drawing is an exclusive project belonging and be other company supplies associated to or design company.

Machine Translated by Google

4. ASSEMBLY OF THE SLATS

Start by preparing the cutting of the slat holders so that the slats match the dimensions of the bed.

Cut the end slat holders (Fig. 40A) as necessary to fit them into the side profile (Fig. 40D) according to the dimensions of the bed.
Cut the slat holders (Fig. 40B) in correspondence with the motor crosspiece (Fig. 40C) (Fig. 41).

FIG.40

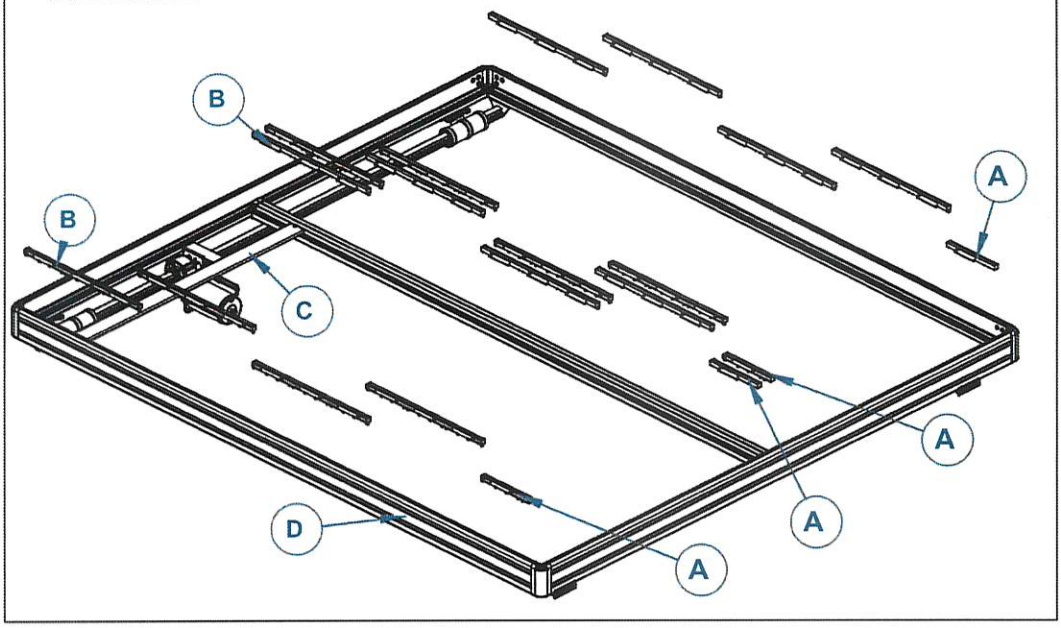
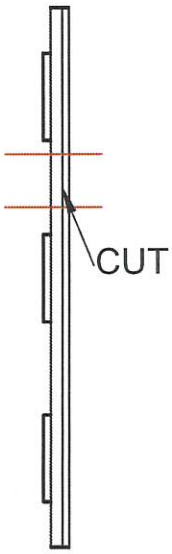


FIG.41



Insert the slats (Fig.42A) into the appropriate spaces in the slat holder (Fig. 42A) and form modules of 3 slats, which will be placed side by side to form the bed base.
Using a stapler, staple the slats (Fig. 43A) to prevent them from accidentally coming out of their seats.

FIG.42

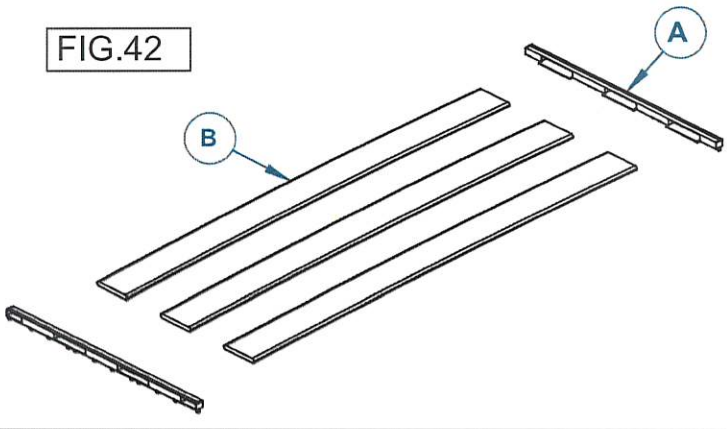
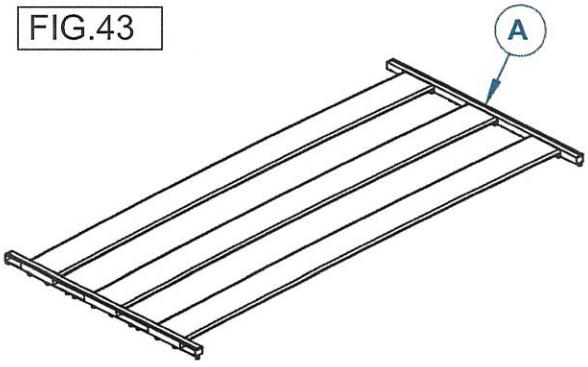


FIG.43



This drawing is an exclusive project belonging and be other company supplier associated to or design company.

Machine Translated by Google

Place the modules side by side to form the bed base (Fig. 44A) and insert the slat holders into the appropriate slot on the aluminium profiles to join the slats to the frame (Fig. 45).

FIG.44

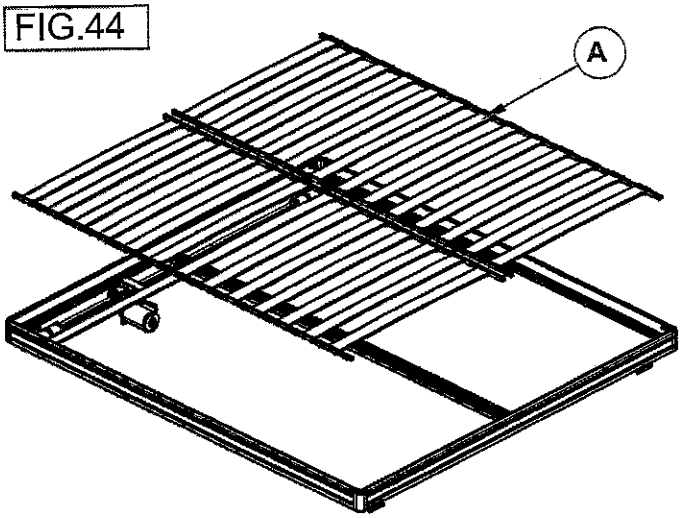
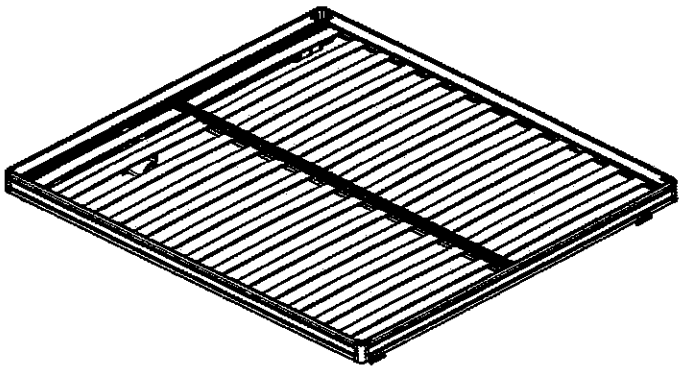


FIG.45

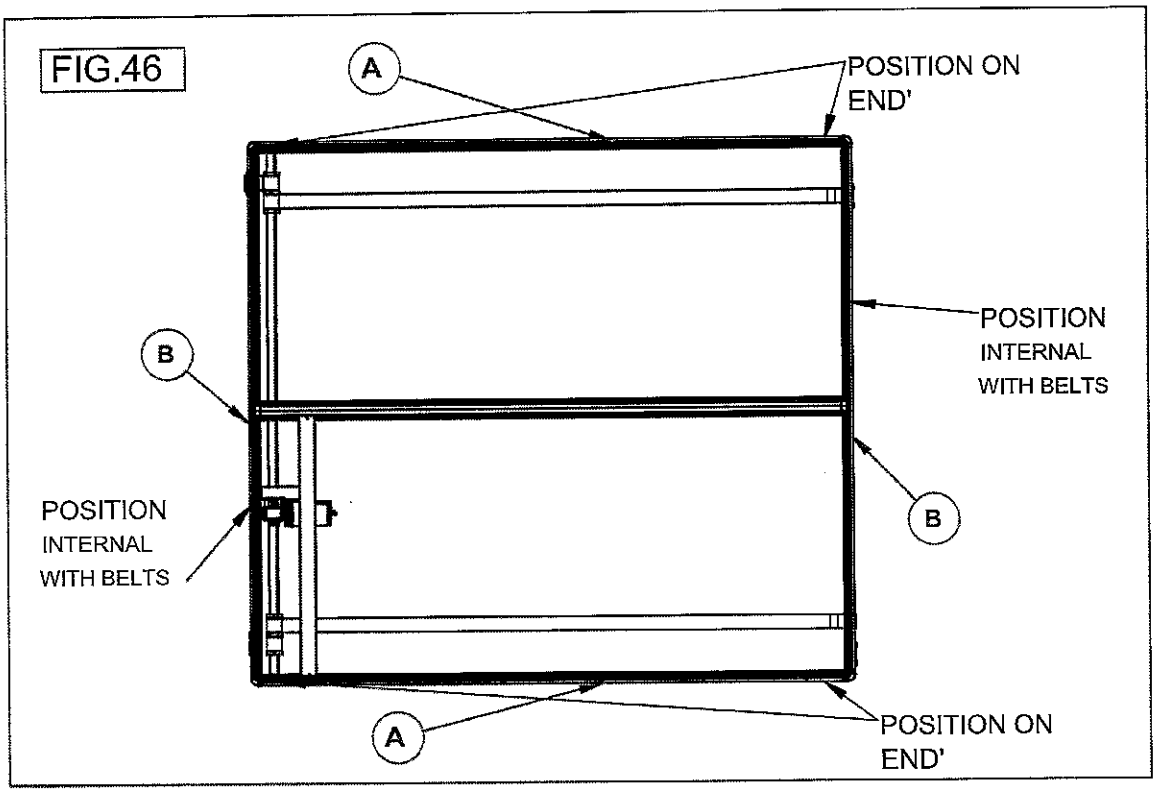


5. ASSEMBLY OF BRACKETS AND GUIDE SLIDES

Determine which side of the bed will face the wall and position the rails. The position can vary depending on your needs: strap side (Fig. 46B), side without straps (Fig. 46A).

Position the guides as close as possible to the ends of the bed, or inside the straps if you choose the strap-side position, at the same distance from the corners of the frame.

FIG.46



This drawing is an exclusive project belonging and be other company, supplier, associated to or design company.

Machine Translated by Google

Once the position of the guides has been chosen, proceed to fix the connecting brackets between the bed and the guides (Fig. 47A) in the lower part (Fig. 48) of the perimeter profile (Fig.47B).

FIG.47

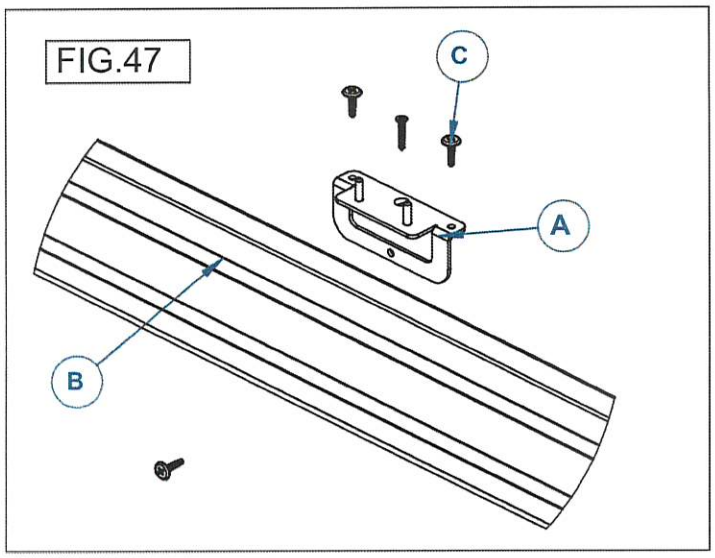
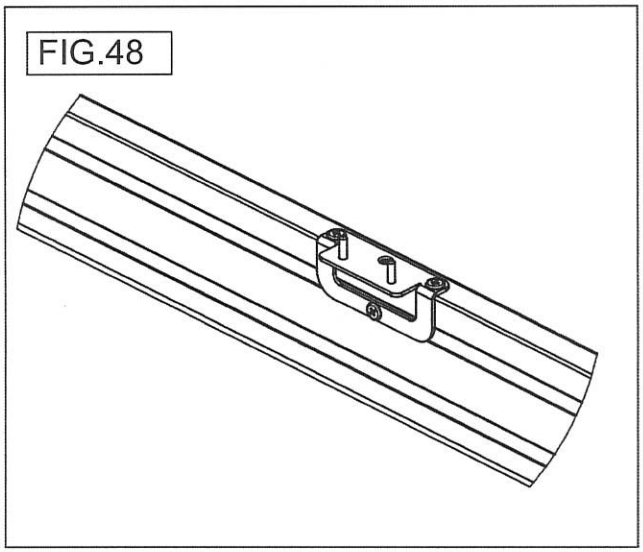


FIG.48



Proceed to assemble the sliding pads as indicated (Fig. 49).
Fix the bracket with the skates (Fig. 50A) to the plate on the frame (Fig. 50B) using M4 nuts (Fig. 50C).

FIG.49

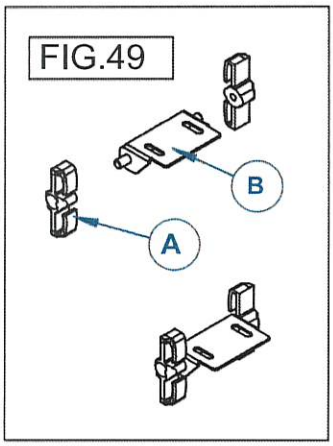
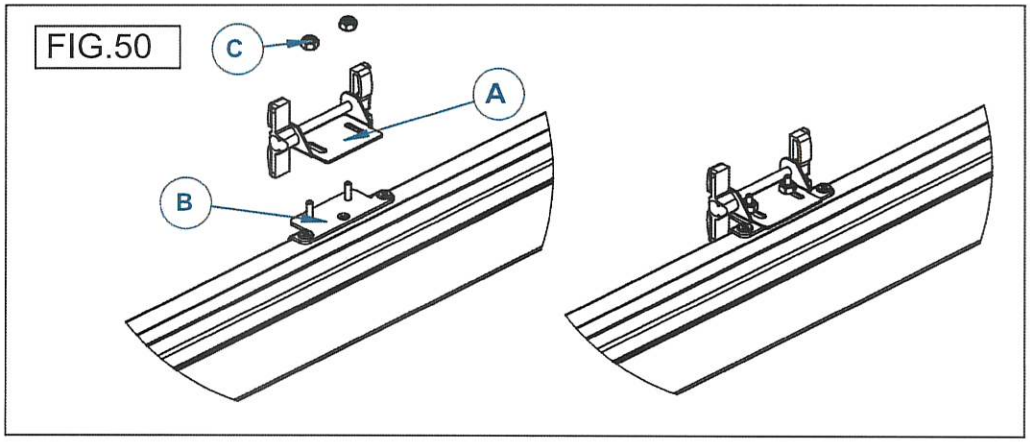
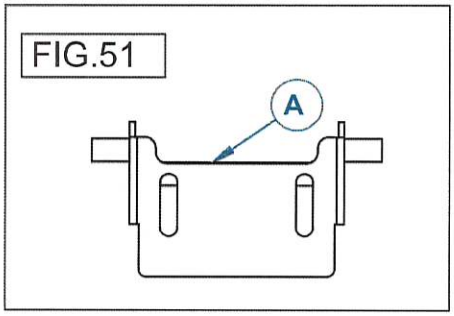


FIG.50



On the guide in which the magnetic sensors for the limit switch will be mounted, use the bracket unloaded in the upper part (Fig. 51A).

FIG.51

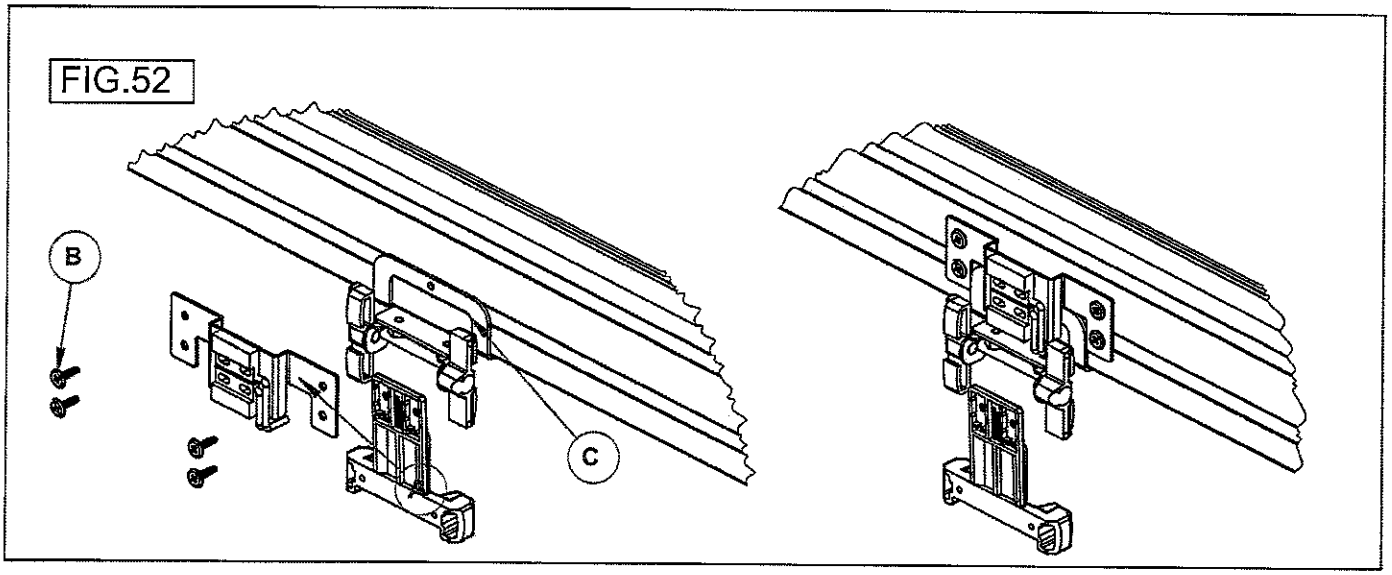


This drawing is an exclusive project belonging and be other company supplies associated to or design company.

Machine Translated by Google

Above the unloaded bracket (Fig. 51) fix the pre-assembled limit switch kit (Fig. 52A) with the screws (Fig. 52B). The kit bracket adapts to the underlying sheet metal (Fig. 52C) which acts as a guide for fixing.

FIG.52



This drawing is an exclusive project belonging and be other company supplier associated to or design company.

Machine Translated by Google

6. UPPER STRAPS FIXING

Remove the fixing brackets by unscrewing the nuts and removing the plates.
Fix the plate with threaded inserts to the wall (Fig. 51).
fit the belt following the diagram (Fig. 52).
couple the plates and tighten the clamping nuts (Fig. 53)

FIG.53

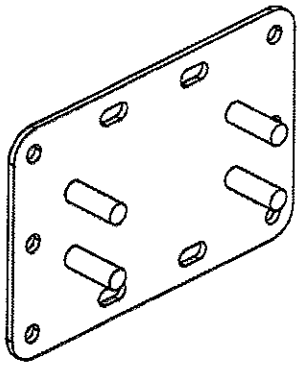


FIG.54

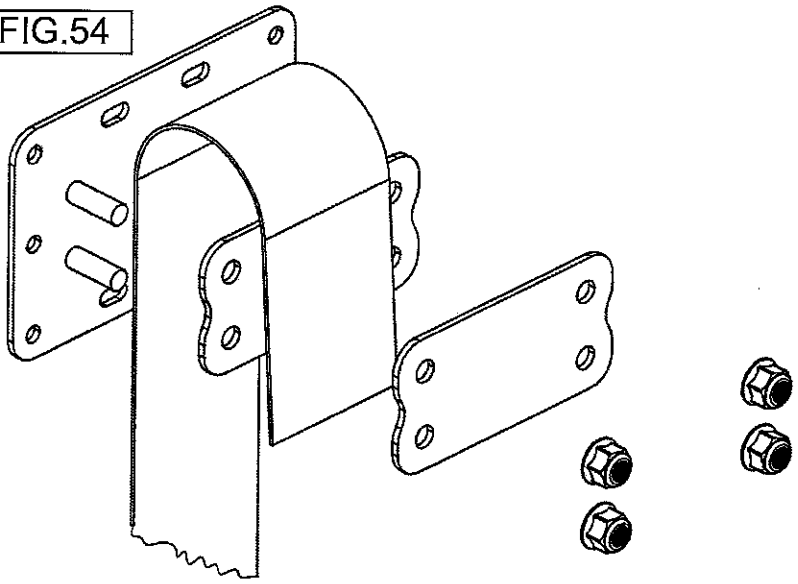
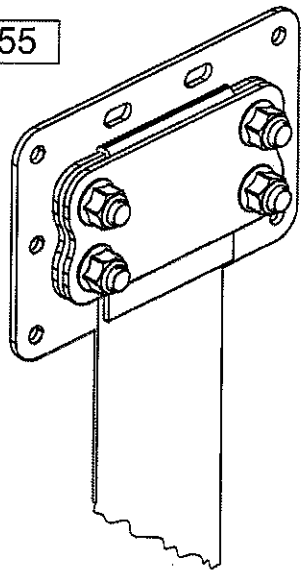


FIG.55



This drawing is an exclusive project belonging and be other company supplies associated to or design company.

Machine Translated by Google

7. ASSEMBLY OF GUIDES AND LIMIT SWITCHES

Insert the aluminium guides (Fig. 57A) by sliding the skates (Fig. 57B) inside them in the appropriate seats (Fig. 58A)

FIG.57

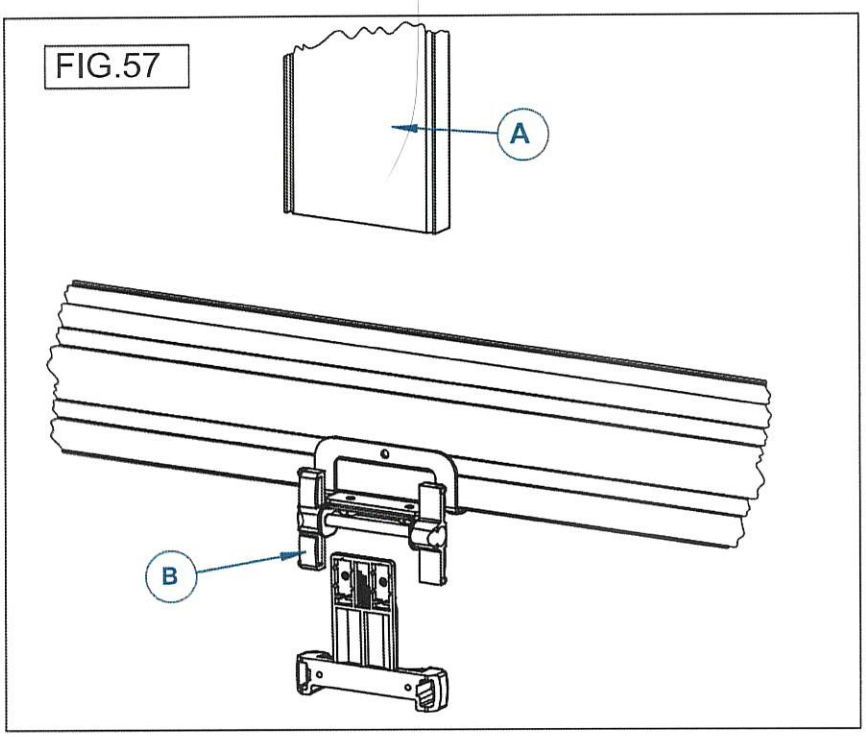
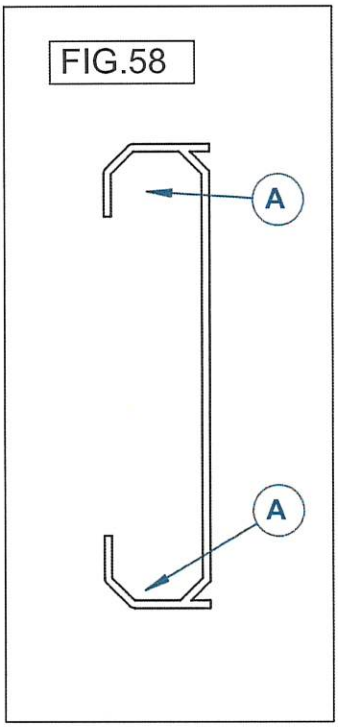


FIG.58



On the inserted guide where the limit switch sensors are located, insert the magnet holder body (Fig.) for the stroke adjustment inside the 2 ends of the guide, upper (Fig.) and lower (Fig.) and lock by screwing the grub screws (Fig.) make sure the plastic part is not tilted sideways (Fig.).

FIG.59

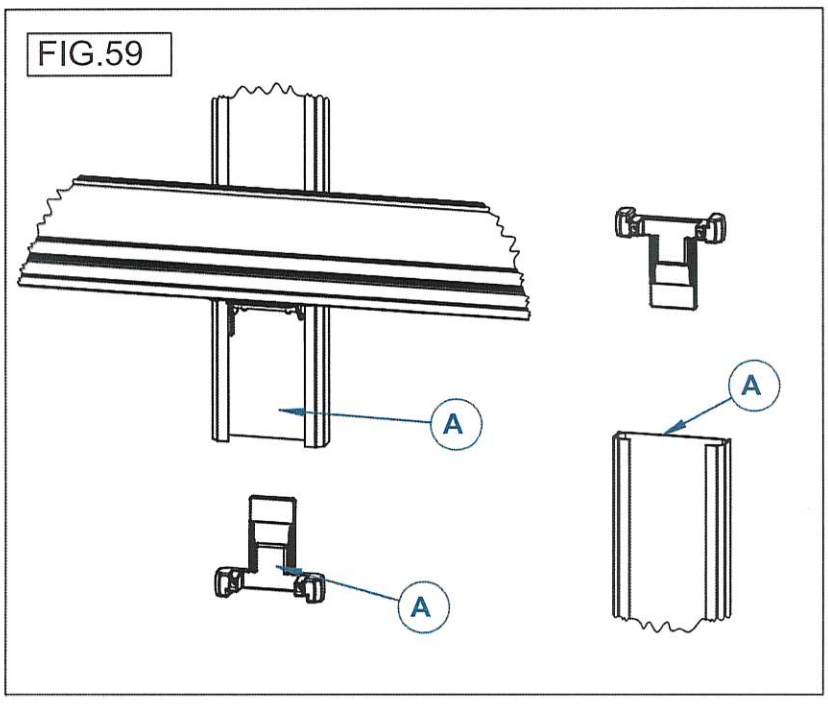


FIG.60

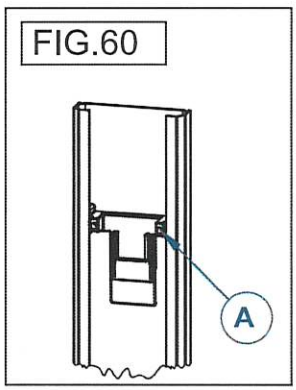
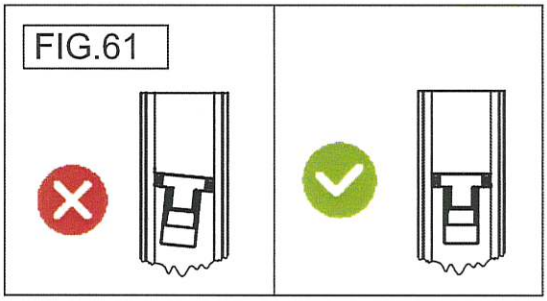


FIG.61

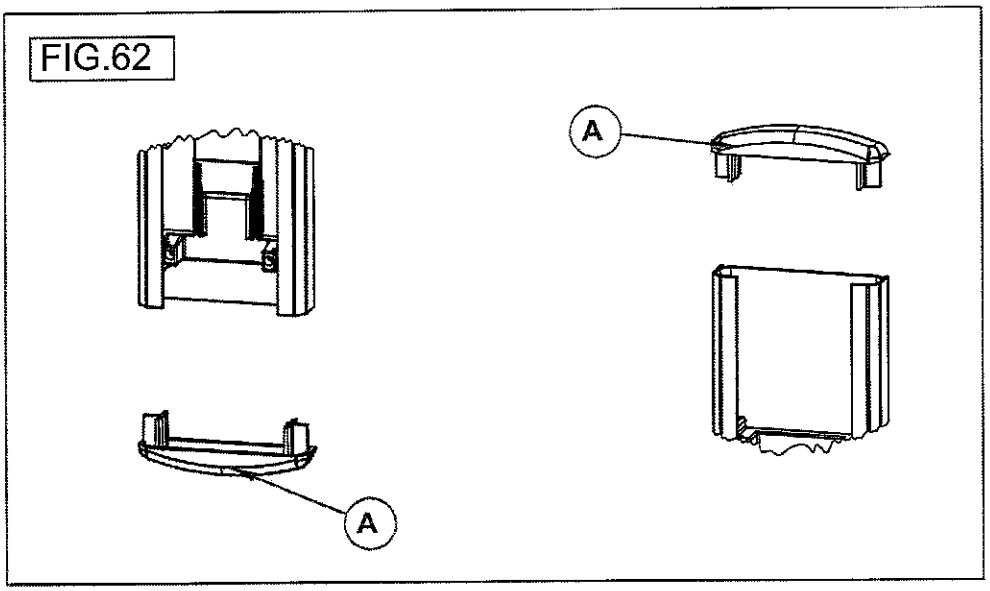


This drawing is an exclusive project belonging and be other company supplier associated to or design company.

Machine Translated by Google

Press the end caps of the guide profile (Fig. 62A) onto the bottom and top sides of both guides.

FIG.62



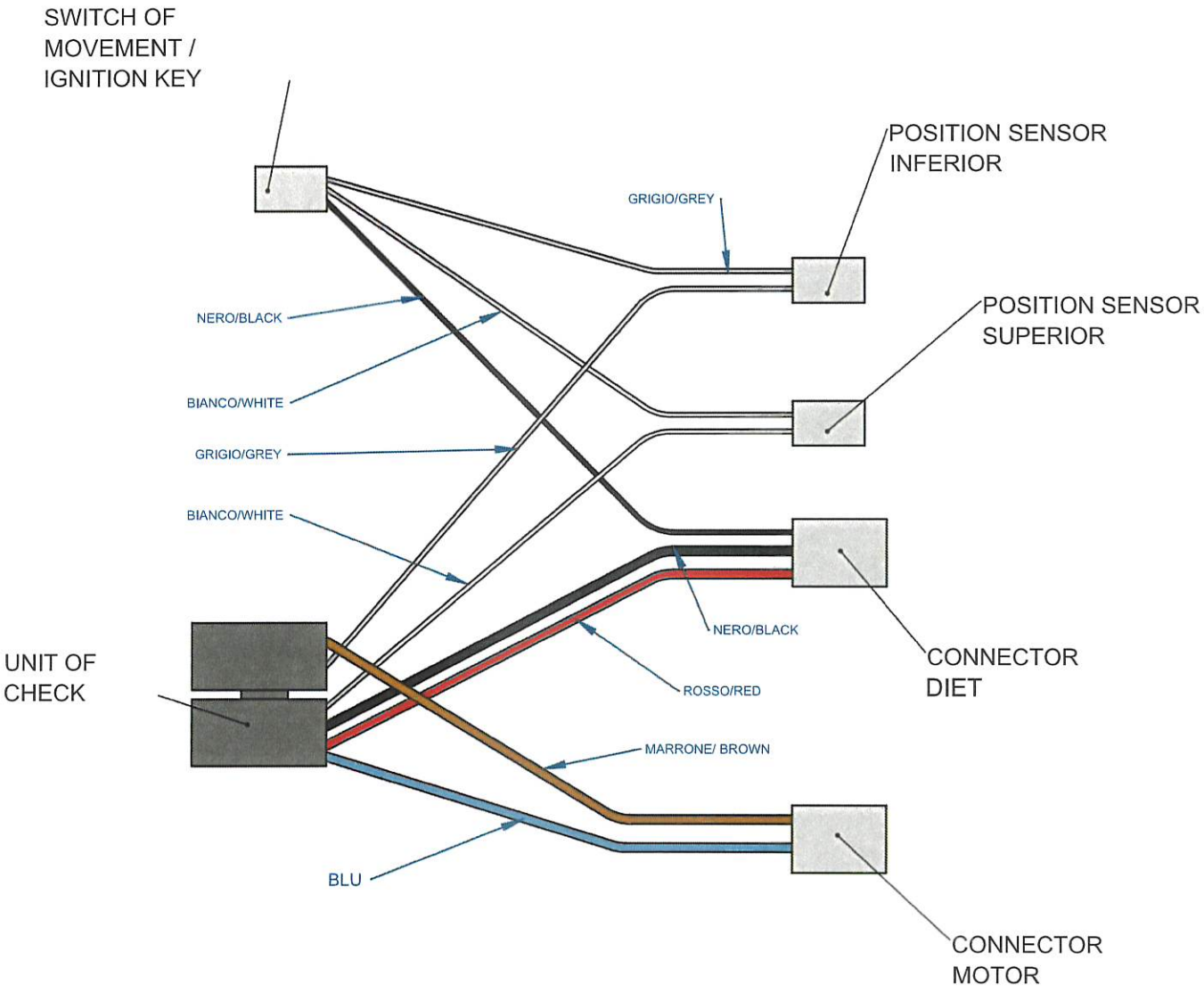
Fix the guides to the wall using the supplied screws (Fig.)

This drawing is an exclusive project belonging and be other company supplied associated to or design company.

Machine Translated by Google

8. WIRING DIAGRAM / WIRING

Connect the connectors to the appropriate electrical elements as described in the diagram below



This drawing is an exclusive project belonging and be other company supplies associated to or design company.