Ref. 267355

EDMA® Plac 450

RACK AND PINION PANEL LIFTER

INSTRUCTIONS AND SECURITY MANUAL

Original instructions

EDMA®
UN OUTIL D'AVANCE

The rack-and-pinion panel lifter EDMAPLAC 450 must not be used without the operator or surrounding persons wearing a helmet.

MAXIMUM LOAD: 60 KG (132 LBS).

As this device is designed exclusively for plasterboard installation, the maximum load must not exceed 60 kg. For safety reasons and to avoid premature product wear, do not exceed this maximum load.

SHALL THE PRESENT SAFETY AND SET UP INSTRUCTIONS NOT BE DULY RESPECTED, THEN THE PRODUCT WARRANTY WOULD BE VOID.
Respect the safety instructions in order to avoid any injury or damage to persons or surrounding elements. Follow the operating instructions to avoid any damage to the tool and to ensure its proper functioning.

THE SECURITY AND SET UP INSTRUCTIONS GIVEN IN THE PRESENT DOCUMENT SHALL BE RESPECTFULLY FOLLOWED AND APPLIED in order not to harm yourself or any other person or element around and in order to guarantee the proper functionning of the tool.

SPECIFICATIONS

- Reference : 267355
- Maximum loading weight : 60 kg (132 lbs)
- Maximum board dimensions : 1,20 x 3,60 m (3,94 x 11,81 Ft)
- Minimum board dimensions : 0.15 x 0.60 m (0.49 x 1.97 Ft)
- Maximum height with extension part : 4,50 m (14,76 Ft)
- Maximum height without extension part : 3,50 m (11,48 Ft)
- Minimum height : 161 cm (5,28 Ft)
- Maximum vertical lifting height with 2,50 m (8,2 Ft) height board : 5,75 m (18,86 Ft)
- Board loading height : 84 cm (2,76 Ft) without extension
- Minimum width in moving/storage position : 63 cm (24 3/4")
- Total gross weight: 53 kg (117 lbs)

WEAR PARTS

Ref. : 526730
Brake lining

Ref. : 526731
Metallic cable

Ref. : 526733
Wheel with brake

Ref. : 526734
Wheel without brake

SPARE PARTS

Ref. : 526732
Hex bit for using with power drill

Ref. : 526761
Steering wheel central screw

Ref. : 526735
Top rack retractable stopper

Ref. : 526756
Steering wheel

Ref. : 526740
Steering wheel handle

Ref. : 526746
Main brake lever

Ref. : 526747
Removable pin

Ref. : 526741
Balance bar with wheels

Ref. : 526742
Power drill support base

Ref. : 526737
Middle foot

Ref. : 526744
Side foot with brake

Ref. : 526743
Side foot without brake

Ref. : 526745
Top rack

Ref. : 526749
Right arm

Ref. : 526748
Left arm

Ref. : 526757
Extension tube

Ref. : 526758
Internal tube

Ref. : 526736
Tool board

Ref. : 526754
43 mm (1 3/4") screw + nut

Ref. : 526753
58 mm (2 1/4") screw+nut

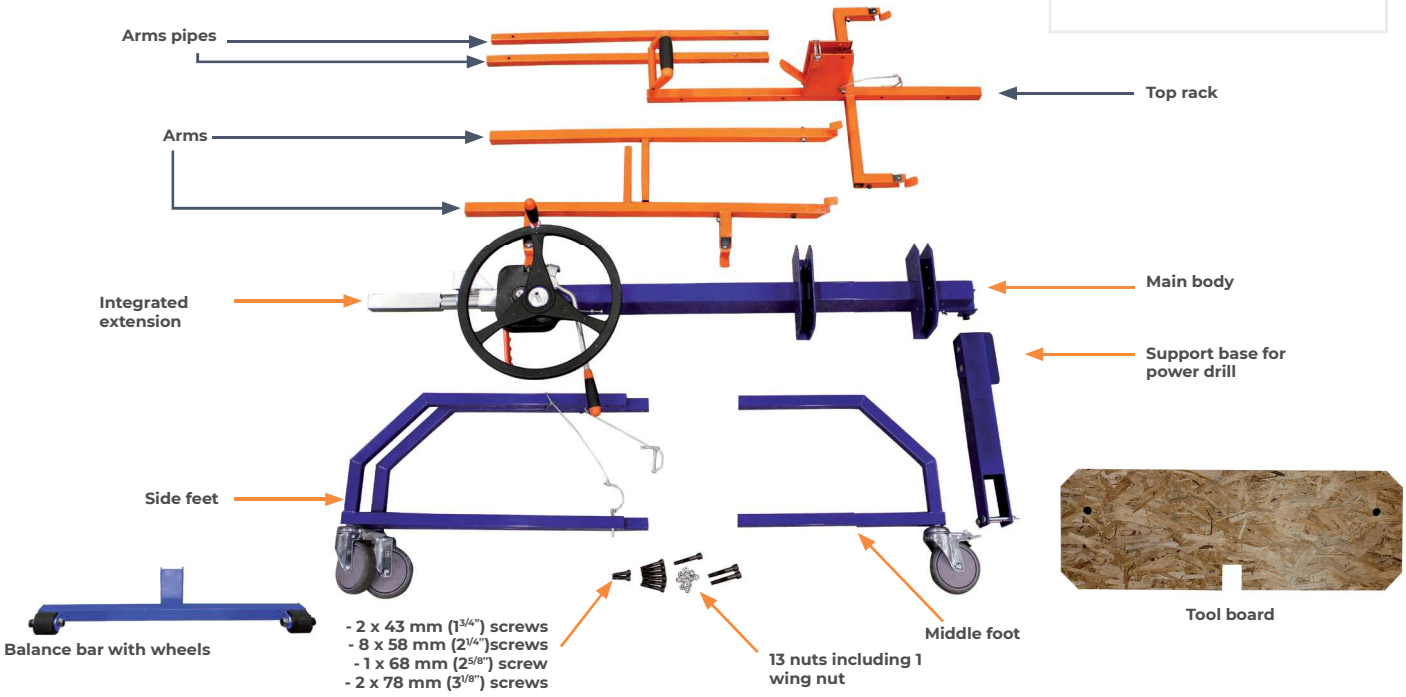
Ref. : 526751
68 mm (2 5/8") screw+nut

Ref. : 526750
78 mm (3 1/8") screw + nut

Ref. : 526755
Nut

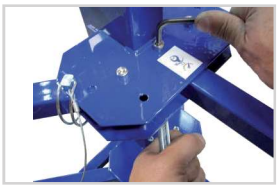
SPECIFICATIONS

NECESSARY TOOLS
- 13 mm (1/2") flat wrench,
- 6 mm (1/4") hex wrench



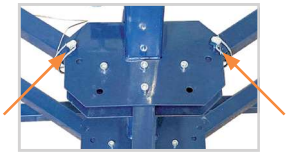
1 Fix the balance bar with wheels to the main body with the two 78 mm (3⅛") screws and nuts. Use a 13 mm (1/2") flat wrench and a 6 mm (1/4") hex wrench.

2 Fix the lateral and central feet to the base frame with the six 58 mm (2¼") screws and nuts. Use a 13 mm (1/2") flat wrench and a 6 mm (1/4") hex wrench.
Position the side feet with brake on the same side than the security and main brake levers.
The central foot is the shortest foot. **The central foot nuts have to be firmly tightened because this foot doesn't rotate like the side feet.**

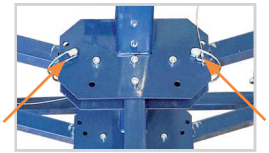


3 Open the 2 side feet and insert the removable pin in the base frame hole following the selected configuration.

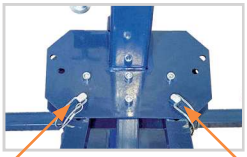
Horizontal ceiling setting and sloping ceiling



Vertical setting

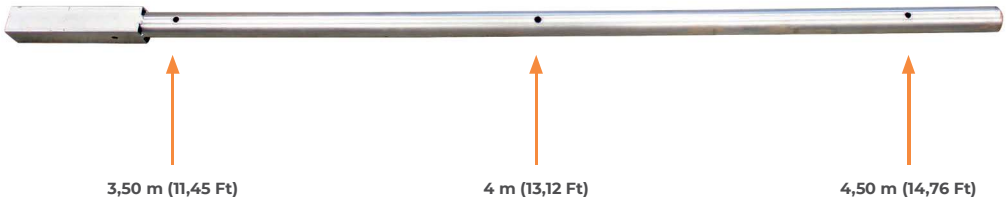


Storage, moving and door crossing position

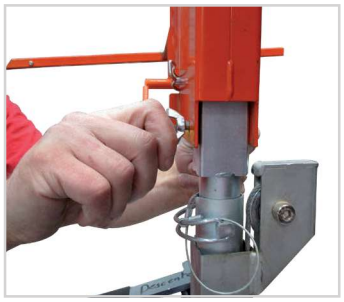


⚠ The top rack must be in low position and without any material upon it while changing the feet position.
Use the balance bar to prevent the unit from tipping over.

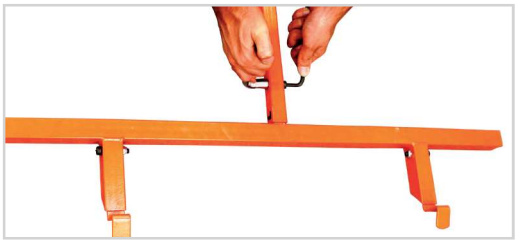
4 Insert the 1 m (3,28 Ft) extension in the frame and lock it in the selected hole with the corresponding removable pin. The extension has 3 different height positions : 3,50 m (11,48 Ft), 4 m (13,12 Ft) and 4,50 m (14,76 Ft).



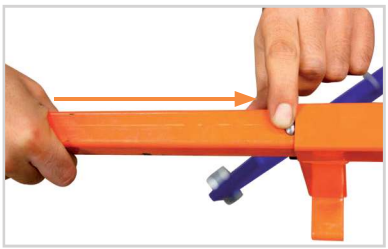
5 Remove the locking pin from the top rack.
Insert the top rack in the extension base and fix it with the 68 mm (2 5/8'')screw and wing nut.
The handle to angle the top rack must be in the same side as the steering wheel.



6 Assemble the arm pipes and the arms with the two 43 mm (1 3/4'') screws and nuts, using a 13 mm (1/2") flat wrench and a 6 mm (1/4") hex wrench. Make the arms marks match : R with R and L with L.



7 Insert the arms in the top rack according to the position selected. When you are in front of the steering wheel, put the R arm on your right and the L arm on your left. The retractable pins must be locked in the corresponding holes.



8 Fix the power drill support base to the main body with the 2 provided screws and tighten the wing nuts to lock the support base.
Remove or lower the support when using the device manually (without power drill).

9 Unscrew the handle nut, insert the handle into the hole in the steering wheel and tighten the nut to secure the handle.

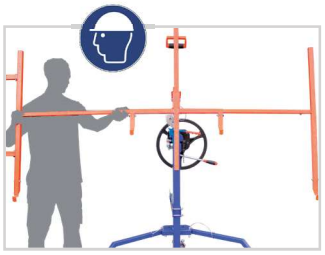
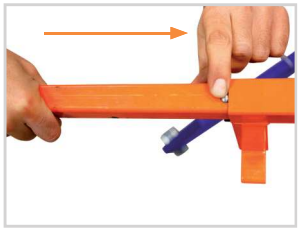
10 When the feet are in the horizontal ceiling and sloping ceiling position (see point 3), you can install the tool board (option included). Insert the 2 holes in the board into the lugs on each side foot.
The groove of the wooden board is to be inserted on the main frame.
Tighten the clamping screw to secure the tool board.

OPERATING INSTRUCTIONS

1. Lift the latch to unlock the top rack and tilt it completely.



2. Insert the arms in the tube according to the selected setting, the retractable pin must be locked in the hole.


3. Block the 2 wheel brakes, then load the board.




4. Pull the handle to position the board on the chosen configuration.
Always ensure that the foam is present in the top rack as it is necessary to lock it (anti-tilting).

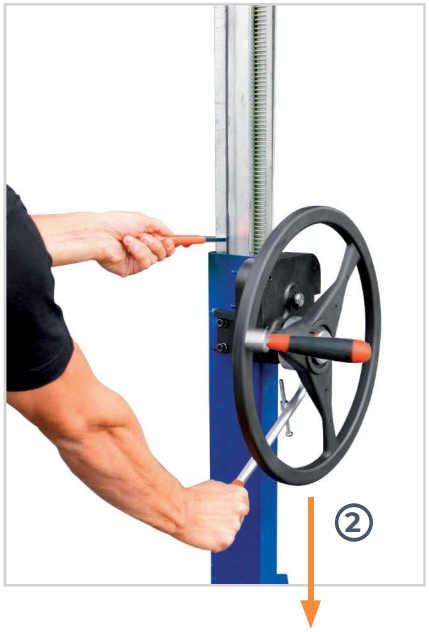


5 Unlock the 2 wheel brakes and turn the steering wheel while pushing the main brake lever to lift the board.

6 Once the board touches the ceiling, position the board perfectly by moving the device with both hands on the steering wheel and lock the wheel brakes while screwing the board.

⚠ To move the EDMAPLAC 450, both loaded and unloaded, place both hands on the steering wheel. You can also place one hand on the steering wheel and the other on the top rack handle, when the top rack is in down position.

7 In order to lower the top rack, lift the safety brake (1) (left handle), then push on the lever of the service brake (2) (lever placed under the steering wheel) more or less firmly to control the descent speed. If you have to lower the top rack loaded, pay attention to control the descent by pushing slightly on the main brake lever.
In case of a main brake default, release immediately the safety brake lever in order to stop the descent right away.
When operating the lowering command, always position yourself behind the left side foot, paying particular attention to avoid the risk of hitting your head.



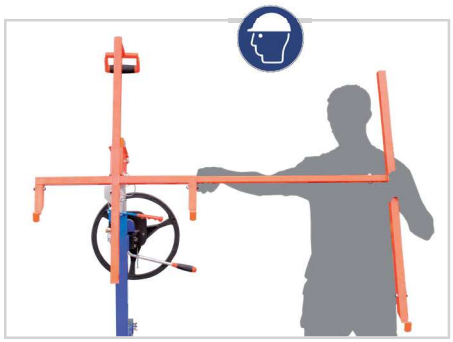
⚠ Caution ! Do not use the lever of the safety brake as a main service brake to stop the machine in normal use conditions as it may damage the machine.

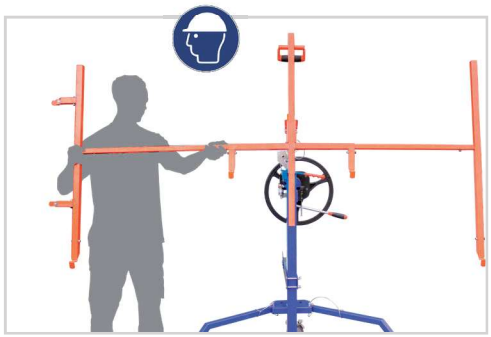
LOADING CONFIGURATIONS

HORIZONTAL CEILING AND SLOPING CEILING SETTING

1 Open the feet as much as possible and insert each removable pin in the 3rd hole of the base frame.

2 Insert the arms in the horizontal tubes, the retractable pin must be locked in the selected hole.





3a

CEILING SETTING

Once the board loaded, pull the top rack handle to put the board in horizontal position.

Always ensure that the foam is present in the top rack as it is necessary to lock it (anti-tilting).

NB. Position the panel lifter with the steering wheel in front of the wall to lift the board along the wall.

3b

HORIZONTAL SLOPING CEILING

Once the board loaded, pull out the removable pin to unlock the top rack, then pull the handle to angle the board. Insert the removable pin in the sloping ceiling position hole (45° position). The top rack position is adjusted according to the ceiling angle while the board is touching the ceiling.

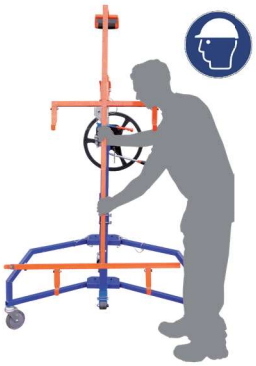
4 Turn the steering wheel while pushing the main brake lever to lift the board up to the ceiling.

LOADING CONFIGURATIONS

VERTICAL LIFTING AND VERTICAL SLOPING CEILING SETTING

1 Insert the arms in the vertical tubes, the retractable pin must be locked in the selected hole according to the board dimensions.
- 1st hole for vertical sloping ceiling
- 2nd hole (with "vertical position" marking) for vertical lifting.

⚠ Load only one board at a time.



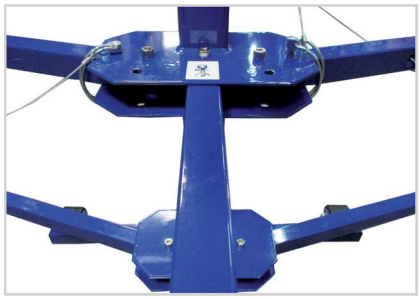
2a VERTICAL SLOPING CELING

Once the board loaded, pull out the removable pin to unlock the top rack, then pull the handle to angle the board and insert the removable pin in the sloping ceiling position hole (45° position).

The top rack position is adjusted according to the ceiling angle while the board is touching the ceiling.

2b VERTICAL LIFTING

Once the board loaded, position the EDMAPLAC 450 along the vertical wall. Pull out the removable pins from the 2 lateral feet and open them up to the 2nd hole of the frame base. Insert the removable pins to lock the feet. Pull out the removable pin from the top rack in order to angle the board completely on vertical position, while pushing the EDMAPLAC 450 along the wall thanks to the top rack handle so that the board rests against the wall. Lock the 2 wheel brakes.



3 Turn the steering wheel while pushing the main brake lever to lift the board. When lifting the board, be sure to stay in contact with the wall to prevent the unit from tipping over.

AUTOMATIC USE ASSISTED BY POWER DRILL

① First of all, you must use the power drill support base for safety reason. Then, set up the EDMAPLAC 450 according to the selected setting configuration.

② Insert the hex bit in the power drill chuck

③ Adjust the power drill support base according to the power drill dimensions.

⚠ Never use the power-assisted function without placing the power drill on the support provided.

④ Insert the hex bit fixed to the power drill, in the hex hole located in the middle of the steering wheel. Turn the power drill to block it against the power drill support base. Set the power drill on “maximum torque - low speed”, rotating on clockwise direction.

⚠ Never use in reverse direction.

POWER DRILL MINI
14.4 VOLTS - 3 Ah

MAXIMUM TORQUE
LOW SPEED

⑤ Pull the power drill trigger to lift the board. When the sticker “STOP” is visible, stop pulling the power drill trigger to avoid any damage to the stop block and to the machine mechanism.

⑥ To lower the top rack, remove the power drill first, then lift the security brake (1) (left lever) then push the main brake latch (2) (latch under the steering wheel) more or less firmly to regulate the descent speed.

⚠ Caution ! Do not use the lever of the safety brake as a main service brake to stop the machine in normal use conditions as it may damage the machine.

MOVING EDMAPLAC 450 WHEN NOT IN USE, FOR DOOR CROSSING

1. Remove the top rack.

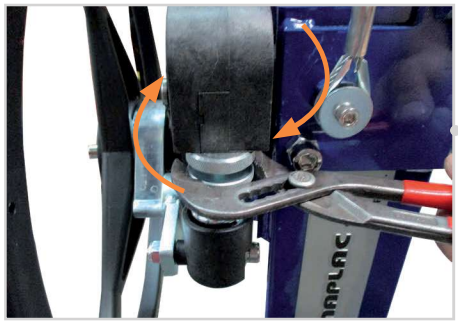
2. Position the feet in storage, moving and door crossing configuration, see assembly instructions, point no. 3.

3. Move the unit using the balance bar and wheels, with both hands on the steering wheel.

SAFETY INSTRUCTIONS

PRECAUTIONS BEFORE USE

- Make sure all the parts are perfectly well assembled.
- Make sure all the nuts are well tight and the removable pins are in position.
- Remove the dust from the gear as well as the rack and pinion.
- Make sure the retractable pins are well locked in their holes.
- Before each use, make a general operational checking.
- Make sure the cable is in good condition. Do not hesitate to change it as soon as the tiniest imperfection is visible : crushing, pinching, wire breaking.
- **Make sure the main brake is in good condition and well adjusted. Once the board lifted at the required height, it has to stay in position when the safety brake is unlocked. If the top rack goes down, tighten the main brake by turning the knurled nut clockwise direction.**



If the adjustment does not work, the brake lining must be worn. Replace it.

- Check that the elevation limit stop is present.

GENERAL SAFETY PRECAUTIONS

- This tool is exclusively dedicated to the plasterboard setting.
- The maximum loading weight is 60 kg (132 lbs). Do not exceed the maximum weight for safety reasons and in order to avoid a premature wear.
- In the vertical/wall installation configuration, the maximum support reaction is 66.5 kg.
- Do not use EDMAPLAC 450 as a freight elevator or person elevator.
- Do not grease or oil the rack and pinion as well as the gear.
- The top rack must be in low position while changing the feet position. Use the balance bar to prevent the unit from tipping over.
- Do not use the wooden tool board as a working platform. Use a stepladder or a regulatory working platform to screw the board onto the ceiling.
- Do not hinder the wheels while using. It may cause a failover of the device.
- Do not clutter up the working area in order to move the EDMAPLAC 450 easier.
- Do not put your hand through the steering wheel while the top rack is lowering. It may cause hand or finger injuries.
- Do not let children use the EDMAPLAC 450.
- Do not erase the EDMAPLAC 450 warning markings.
- No modification on the tool or its accessories are allowed.
- Once the board lifted at the required height, it has to stay in position when the safety brake is unlocked. If the board goes down, tighten the main brake by turning the knurled nut clockwise direction. If the board is heavier than a standard board (more than 25 kg), turn the knurled nut clockwise direction to increase the spring power. If the board still goes down even with the knurled nut at its tightest, change the brake lining.
- Use the EDMAPLAC 450 on a firm, stable horizontal surface which can support the weight of the tool and plasterboard.
- Lock the 2 wheel brakes while lifting a board.
- The user has to ensure his own safety as well as the safety of the other people around the EDMAPLAC 450.
- No one other than the person operating the machine must be in the load-carrying area (top rack) or within reach of the steering wheel.
- In order to avoid collision with the top rack during its descent, use the main brake to regulate the speed. In case of a main brake default, release immediately the safety brake lever in order to stop the descent right away.
- Caution ! This safety brake mustn't be used as a main brake. The main service brake should be used to stop the descent.
- The rack-and-pinion panel lifter EDMAPLAC 450 must not be used without the operator or surrounding persons wearing a helmet.
- Have the device checked regularly by a qualified person (decree of 1st march 2004).
- Suitability for use has been verified.
- Airborne noise emission: the A-weighted emission sound pressure level at workstations is less than 70 dB.

LEGEND

On the steering wheel :
Indicates the direction of rotation of the steering wheel to lift the top rack.

On the steering wheel and on the power drill support :
Warns of the risk of striking or shearing the hand against the power drill support or the steering wheel.

On the rack mast :
Warns of the maximum height of the rack mast.

CABLE REPLACEMENT

NECESSARY TOOLS
- 10 (3/8") and 17 mm (11/16") flat wrench
- 5 (3/16") and 8 mm (5/16") hex wrench.

WITHDRAWAL OF USED CABLE

1. Unscrew the axis maintaining the pulley and remove it with a 17 mm (11/16") flat wrench and an 8 mm (5/16") hex wrench.

2. Pull the internal tube out.

3. Remove the pulley.

4. Unscrew the nut from the axis maintaining the cable to the main body. Use a 10 mm (3/8") flat wrench and a 5 mm (3/16") hex wrench.

5. Unscrew the screw from the main body with a 5 mm (3/16") hex wrench, in order to remove the cable completely.

NEW CABLE INSTALLATION

1. Put the axis through the cable loop to fix it to the internal tube.
2. Fix the opposite cable loop to the main body with the provided screw.
3. Put the pulley back to its location.
4. Put the principal tube back in the main body.

5. Put the axis maintaining the pulley back and tighten the nut on the axis with a 17 mm (11/16") flat wrench and an 8 mm (5/16") hex wrench.
For this step, the internal tube must not be completely inserted in the frame.

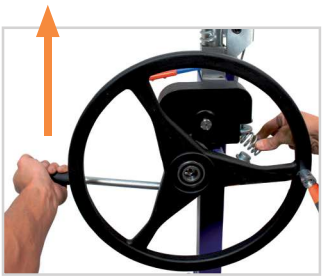
BRAKE LINING REPLACEMENT

NECESSARY TOOLS
- 6 mm (1/4") hex wrench

WITHDRAWAL OF BRAKE

1. Unscrew the central axis of the steering wheel with a 6 mm (1/4") hex wrench.


2. Remove the spring by lifting the main brake lever.



3. Pull the steering wheel to remove it from the axis. Be careful not to lose the small key while pulling the steering wheel.


4. Pull the brake lining to remove it from its location.

NEW BRAKE LINING INSTALLATION

1. Insert the brake lining in its location.

2. Put the steering wheel on the main axis and make sure that the small key is in its location.

3. Replace the spring.

4. Screw the steering wheel central axis.