

MANUAL DE INSTRUÇÕES ESCADA - AMÉRICA



2/28

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Section 1: GENERAL WARNING

- Before using this machine, and in order to maximise safety and efficiency of operation, we strongly advise that you carefully read through this guide and respect the advice and warnings given.
- This guide should be kept and made available to each operator. Additional copies may be obtained by sending a written request giving the code number on the front cover.
- The manager of the establishment is responsible for compliance with statutory regulations For guidance, refer to the CEN machines directive 89/392/CEE and 91/368/CEE.
- You must note and keep clearly visible the instructions fixed directly onto the machine.
- You must ensure that each person that uses the machine is capable of comprehending and following the safe operation procedures required for the correct use of the machine.
- Protect the machine from all possible interference while it is not in use.
- Never use a machine if it is not in good working order.
- Do not use the device if the wind speed exceeds 45 km/h.
 Maximum allowable wind (when not in service): 110 km/h.
- Do not use device in an explosive or tropical atmosphere.
- Operating températures: 5°C / + 40°C
- Never use the machine with a load in excess of its maximum lifting capacity.
- Never use the machine for a purpose for which it is not designed.
- The manufacturer will accept no responsibility for consequences which are the result of unauthorised modifications to the machine.
- Be aware of the regulations concerning operator safety applied to this type of machine and respect them.

It is imperative that the area surrounding the ladder elevator be sufficiently protected in order to avoid all risks from falling materials.

From the control station, the operator must be able to ensure that there are no persons anywhere along the carriage route.

Segion 23 NSTRUCTIONS - PRESENTATION

This manual concerns all versions of the device.

The device always comes in the form of a compact unit. All accessories are separately delivered.

This device allows materials to be conveyed at height.

It is essential to use accessories suited to each material to ensure safe working.

The acoustic level of the device is less than 70 dB.

Maximum Loading = 150 Kg

Variable lengths from 2 m to 15 m using 1 m and 2 m

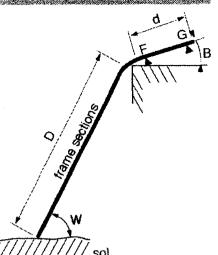
frame sections and an articulated joint section.

Working Angles $w = 45^{\circ}$ to 90°

 $B = 25^{\circ}$ minimum

d : distance after articulated joint : ≤ 6 m

D: distance eet weenthe ground and the first support



SUPPORT LOCATION								
w ^p	2 m	4 m	6 m	8 m	10 m	12 m	14 m	15 m
W ≤ 75°	One support every 6 m max.							
75° < W≤90°	One support every 4 m							
B : 25° min	After articulated joint: 2 supports at F and G with d ≤ 6 m					nd G		

Hoist unit:

230 V single phase

Electrical plug: 16 A. - protection: IP 44 ~~

Power:

0.75 kW

Speed:

≈ 20 m/min depending on device length.

Remote control: up/down + 220 V emergency stop - protection: IP 65.

Safety:

top and bottom limit switch by electrical contact and outlet

cable slack bottom limit switch.

CONNECT DEVICE TO A 16 A POWER OUTLET PROTECTED BY A HEAD-OF-LINE 30 MA DIFFERENTIAL CIRCUIT-BREAKER.

Traction cable: 5 mm dia. steel core, minimal breaking load= 1350 kg Use a 3 x 2.5 mm² section electrical cable with a max. length of 25 m.

In a vertical position, consider weight of accessories and use suitable accessories.

A 5.5 kVA generator is suitable for supplying the device.

N.B. It is normal for the motor to be hot during normal use.

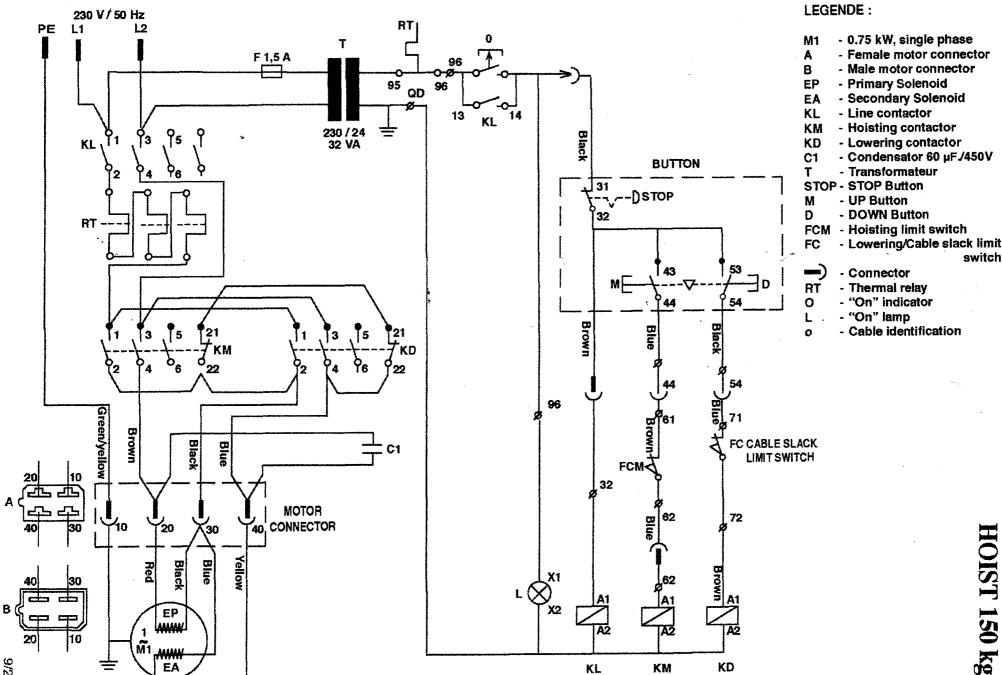
VERY IMPORTANT:

The hoist will only provide its full power if the motor is supplied using the appropriate cable section.

	APACHE		10 m
Weight (kg)	DESIGNATION	CODE	5011/010
46,00	BASE: 1 x 0.65 m long bottom frame section incorporating hoist (220 V single phase, 0.75 kW + 32 m of 5 mm dia. galvanised cable + pushbutton control box, top limit switch, self-lifting shackle) and electrical box.	5011914	1
10,70	Intermediate Ladder Section, length 2 m	27300	4
13,00	Articulated Joint adjustable	33616	1
2,70	Top Pulley Section	33955	1
14,20	Platform with integrated mobile carriage	5011917	1
16,00	Universal Platform	5011915	1
4,50	Adjustable top support	5011909	2
5,00	Side panel	32708	2
2,00	Displacement wheels	33593	2
0,10	Clip SERFLEX	80466	12
7,00	Intermediate Ladder Section, length 1 m	27305	1
0,20	19 mm spanner	33960	2
0,75	Lower stroke stop for carriage	33962	1

Sales code	DESIGNATION	kg
	ACCESSORY KITS	
5011901 32863 5011904	Skip unit 3- sided tile cage Apache Builder Pack	45 6 53
,*	STANDARD ACCESSORIES	
27305 33618 33614 5011902	Ladder Frame Section, 1 m (without clip) Top Support, adjustable from 0.80 m to 1.30 m Standard Telescopic Prop, adjustable from 3 m to 5 m (used with 1 x Standard rest) 5 m Comfort Pack	6,5 9,2 20 32
	- -	
	ACCESSORIES FOR VERTICAL ASSEMBLY (One anchor point or tie should be used every 4 metres and at the top)	
81440 33908 33907 33906 5011905	Doubles Swivel Couplers type RCM 230, for tube diam. 40/49 (l'unité) 1 Anchor Jack 1.20 m, Epoxy painted, type RCM 21 1 Anchor Jack 1.00 m, Epoxy painted, type RCM 210 1 Anchor Jack 0.80 m, Epoxy painted, type RCM 2100 "Anchoring and Propping" Pack	2 5,7 5,2 4,8 26
	graph (Me)	
	ACCESSORIES FOR "SOLAR PANEL" PACK	
5011911 5011912	F	10 0,2
	A .	
	PLATFORM ACCESSORIES	
33951	Telescopic support for horizontal setting of the platform (2 are required)	1,5

Sales code	DESIGNATION	kg
	MECHANICAL SPARE PARTS	
501191603 09000079 09000102 09030030 09000053 09000004 09000100 09000121	Spring for carriage safety device Kit comprising 8 carriage rollers Self-lifting shackle (8 mm shackle) 165 mm dia. plastic pulley Nylon roller for carriage to skip suspension Top limit switch support Cable Diam. 5, 32 m long. Rubber part for hoist frame	0,01 0,2 0,05 1 0,02 0,5 5 0,01
	ELECTRICAL SPARE PARTS	
09000124 09020034 09000114 09000113 09020010	Complete 17 m top limit switch Remote control only (excl. cable) Limit switch antenna Limit switch body Complete remote control	5 0,3 0,05 0,3 0,8
	For any other electrical part such as condenser, motor, or contactors, etc, please contact the COMABI After Sales Service.	
	please contact the COMADI Aitel Sales Selvice.	
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Section 6: HANDLING - TRANSPORT - STORAGE

Handling remains manual because of the low weight of the components.

Heaviest parts (hoist, concrete skip, etc.) must be handled by 2 people.

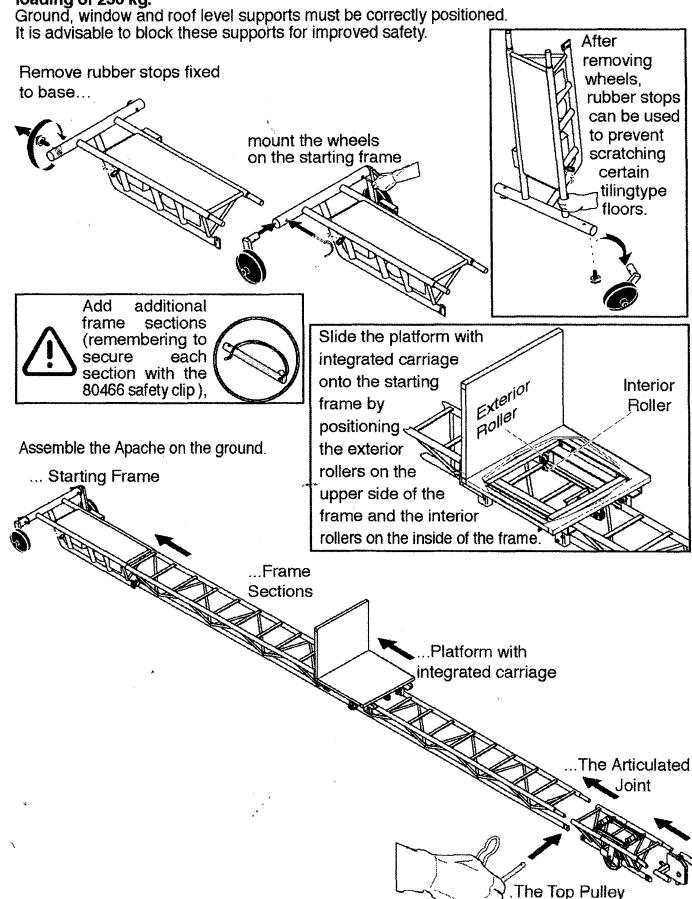
The hoist unit can be handled using the displacement wheels on the base section.

Storage in a dry location is preferred, especially for the hoist unit...

Section 6: ASSEMBLY - PREPARATION FOR OPERATION: example on roofing version

Assembly should be undertaken in compliance with the safety standards and regulations that apply (protective helmet, gloves ...)

The surfaces that the machine may lie against must be capable of resisting a minimum loading of 250 kg.

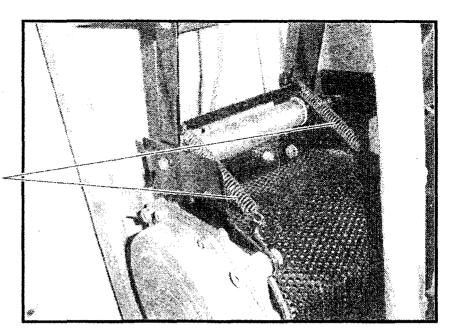


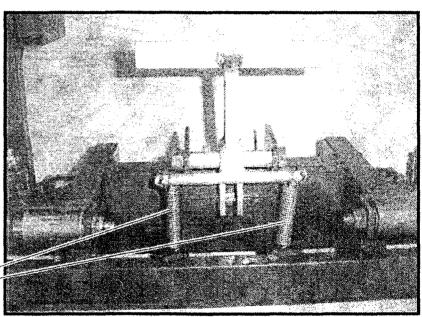
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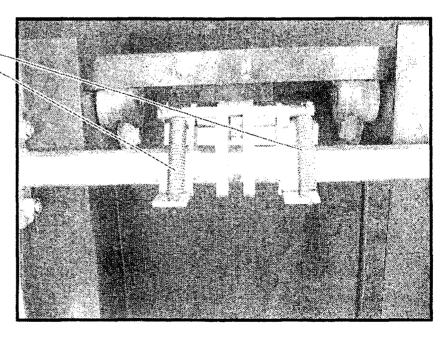


Prior to starting erection, check presence of 2 wire rope tensioning springs...

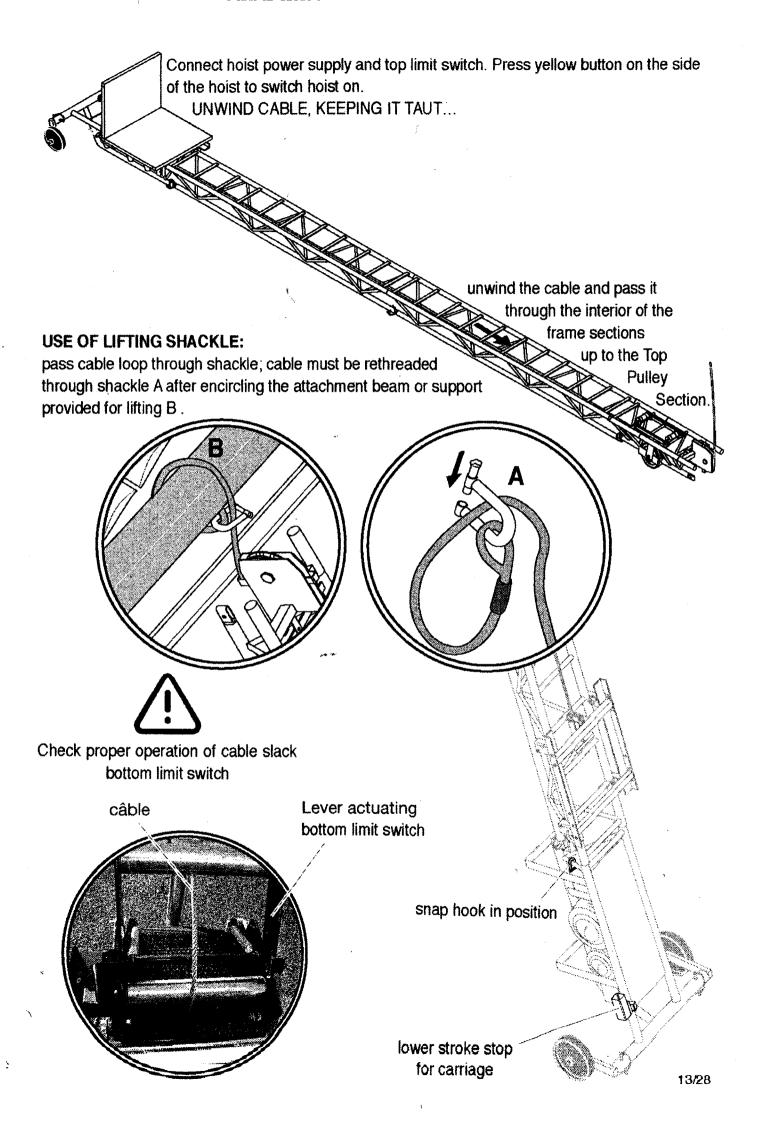


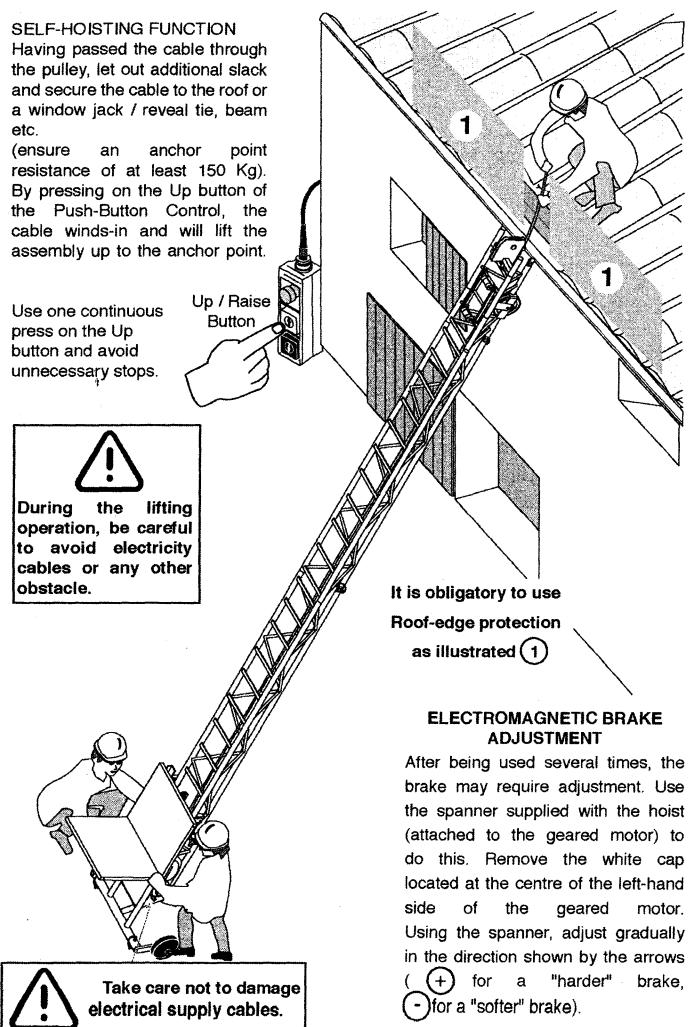


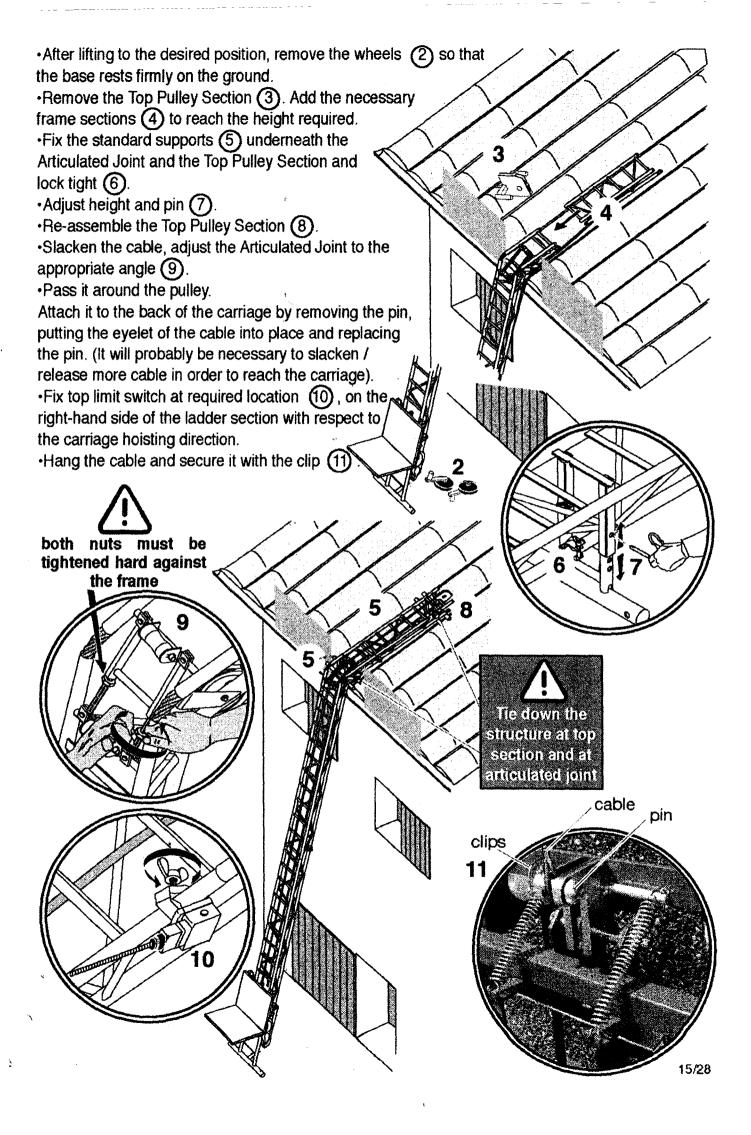
...and 2 parachute mechanism springs

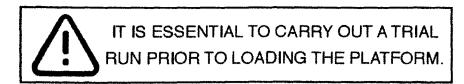


If just 1 of these springs is missing, it must be replaced before putting device into service









TO DISMANTLE THE ELEVATOR, FOLLOW THE ASSEMBLY PROCEDURES IN REVERSE ORDER.

KEEP CABLE TAUT AND ENSURE IT IS PROPERLY WOUND OVER FULL WIDTH OF DRUM.

Seetion : (ADDING AN EXTER SECTION)

Raise the carriage to the top of the assembly.

Slacken the cable and hook the parachute mecanism to one of the bars of the frame.

Detach the cable.

Take off the Top Pulley Section.

Add the required number of ladder frames.

Unwind an additional length of cable and pass it through the interior of the ladder frames.

Re-assemble the Top Pulley Section.

Attach the cable to the carriage.

Different anchoring systems are available which offer improved safety for a variety of site conditions.

Sealon exoreoxing when puring into server

Check that the cable passes around the pulley and over the rollers of the articulated joint.

Check the overall stability of the assembled structure and conduct a no-load test.

Visually check the overall assembly before each use, according to your national regulations covering the use of lifting devices.

Inspect erection prior to each utilization.

Check that the power reaching the hoist complies with the recommendations (200 V supply, head-ofline 30 mA differential circuit-breaker).

Seation to objective defines

When using the machine, it is **STRONGLY AVISED** to regularly check the parachute system. Regularly check the contacts for the top and lower limit switches.

ENSURE THAT THE CABLE WINDS CORRECTLY ON THE CABLE-DRUM. When necessary, it is preferable to unwind completely and then rewind the cable onto the drum to avoid twists and bunching...



To be inspected regulary



To be changed immediately

If the case of a possible cable rupture and activation of the parachute mechanism under load, you must unload the accessory in use, change the cable and check for damage to other components. All components must be changed, even those that are only slightly damaged.

Never put any obstacles on the ladder sections.

Never put your hands on the ladder sections during operation of the machine - <u>THEY</u> CAN BE BADLY CUT.

Never pass your hand inside the motorised base or between the cable and the hoist unit.

Section 11 INCORRECT EUNOTIONING OF THE MACHINE

The carriage does not return, or the parachute mechanism is activated. Check:

- the minimum inclination of 25° of the section above the articulated joint.
- the functioning and condition of the rollers on the articulated joint.
- the condition of the ladder sections.
- that wire rope tensioner is not activated.

The carriage does not lift the load or the hoist does not work. Check:

- the electric power level reaching the hoist should be above 220 V.
- · the electric cable section.
- that the lower limit switch is working properly.
- the push-button control and its cable.
- the fuse in the electrical box (or the circuit-breaker).

The machine is not working at full capacity. Check:

- the real weight of the load.
- the electric cable section.
- the release of the brake as soon as the up or down button is pressed.

Abnormal heating of the motor unit or frequent tripping of the circuit-breaker or the fuse. Check:

- that the hoist is not being overloaded.
- same solutions as previously mentioned.

If you have checked all the above points and the hoist still does not function correctly, please contact the After Sales Service of our local agent.

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B

PLATFORM + DOUBLE FUNCTION SIDE PANELS 32708

Position (A): Tile Carrier, tools, general materials...

• Insert the panels (B) into the locating holes in the carriage platform.

• Secure with the clip **(C)**

Position (B): Planks, rolls of material, lengths of

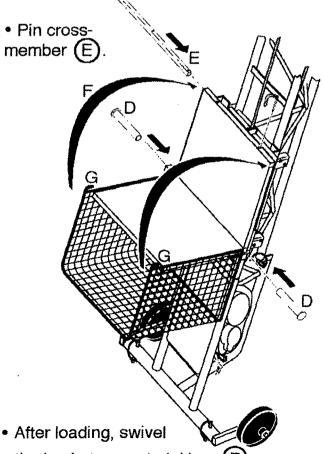
• Reverse and invert the panels (B). Insert them into the locating holes on the platform..

• secure with the clip C.

NB if the panels are reversed but still in the **(B)**, position, the projecting tubes may serve to secure material on the platform.



• Position cage beneath the material box such that both basket shafts (D) and crossmember (E) can be inserted into the box reinforcement.



ADJUSTABLE SUPPORT 33618

Position (A)

В

В

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Position (B)

 For deployment on roofs or reception of materials inside a building.

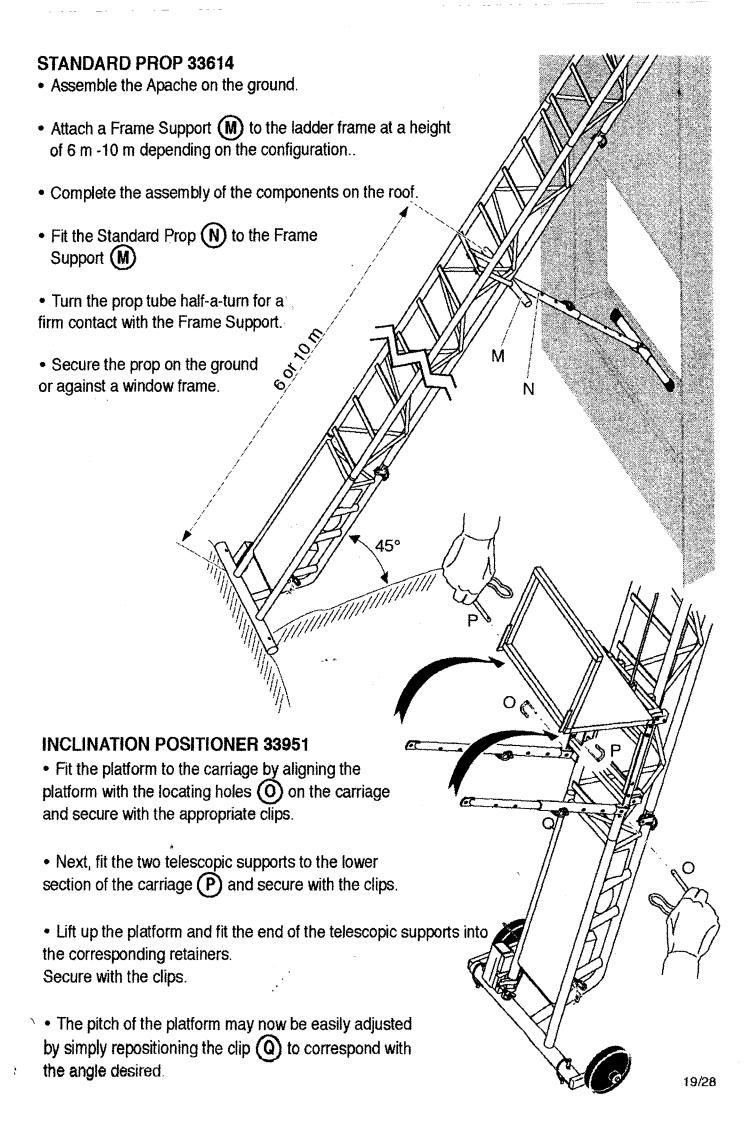
В

- Assemble a Standard Rest (H) onto the end section of the ladder frame.
- Position the support just underneath and in contact with the Standard Rest.
- Secure the new assembly using the clips (K)
- Secure (horizontally) the new assembly using the clips (J).

using the clips (J)

Install the telscopic arm (L) by adjusting it to the appropriate length and using the collar and wingnut to attach it to the ladder frame.

the basket on material box (F).
Lock cage using both shafts (G).



PLASTERBOARD AND PANEL PLATFORM 32796

• Slide the lefthand component 1 into the locating hole in the carriage platform.

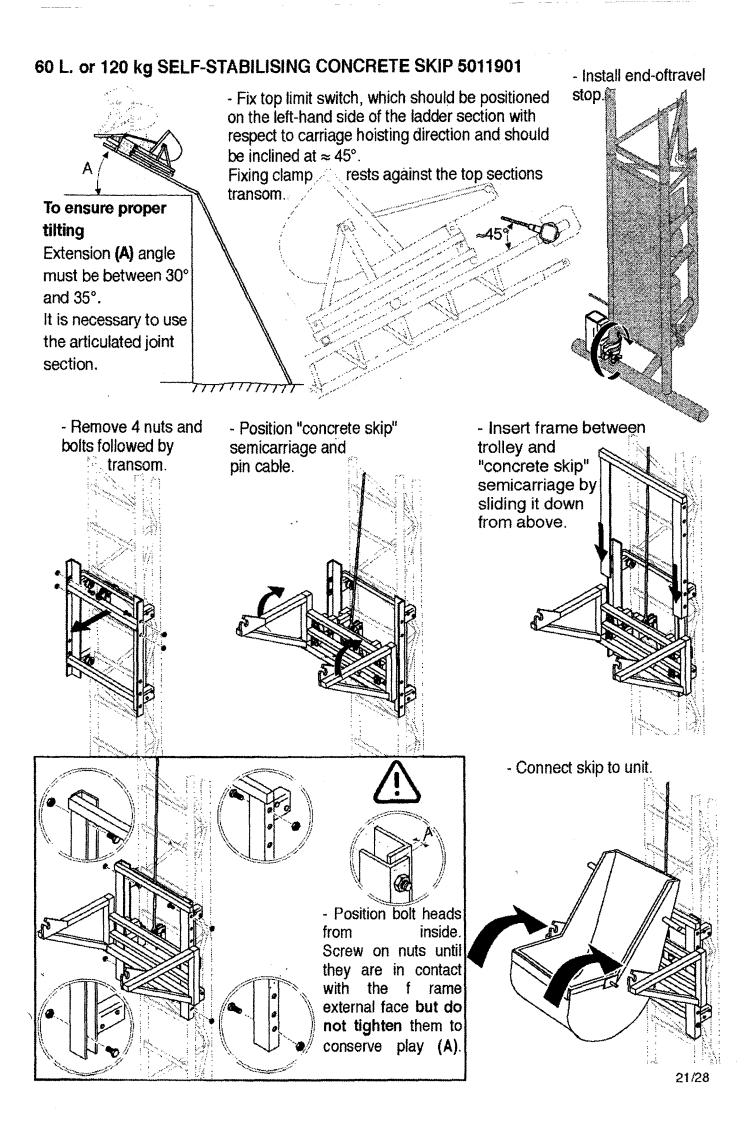
• Fit the components 2 and 3.

• Slide the righthand component 4 into the locating holes in the carriage platform and components 2 and 3.

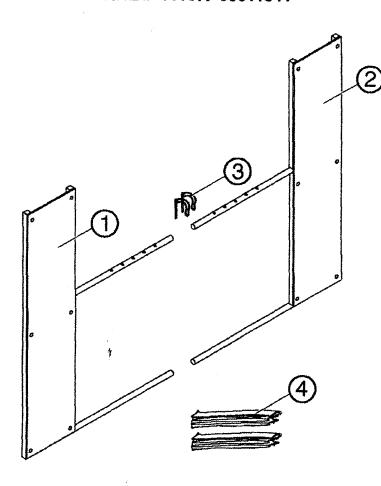
• Tighten the 4 eye-bolts 5 to make the assembled components more rigid.

• Insert components 6 to keep the plasterboard or other kinds of panel in place during lifting.

Note: All panels must be correctly centred, and their dimensions should not exceed 1.40 m x 3.00 m.

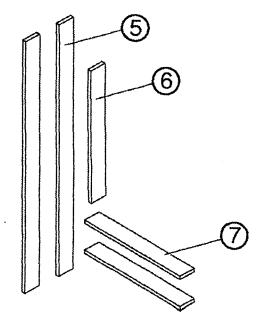


"SOLAR PANEL" PACK 05011911



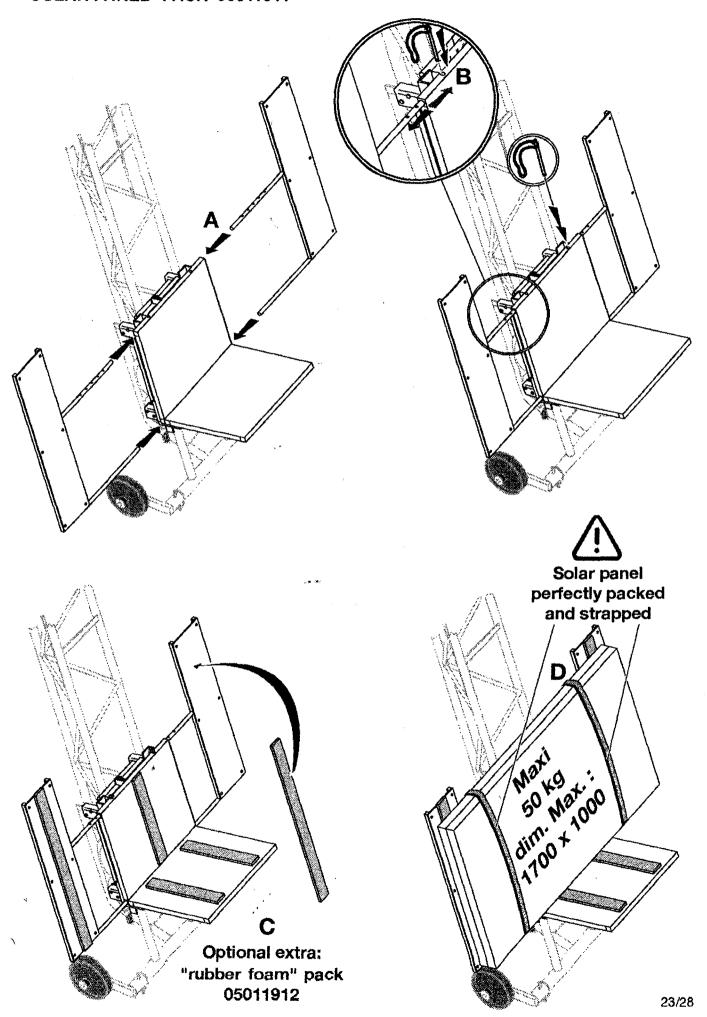
- Right panel ①
- Left panel ②
- Clips (2 pieces) SERFLEX D10 3
- Straps (2 pieces) to tie solar panel 4

Optional extra "RUBBER FOAM" PACK 05011912

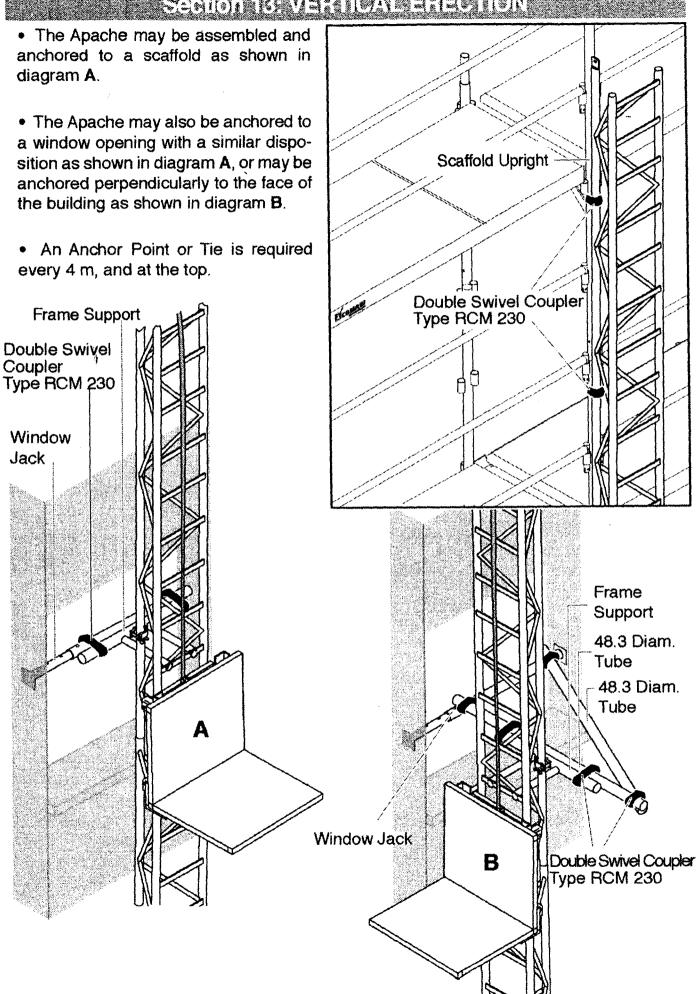


- Rubber foam (2 pieces) for right and left panel (5)
- Rubber foam (1 piece) for the vertical side of the platform (6)
- Rubber foam (2 pieces) for the lower side of the platform (7)

"SOLAR PANEL" PACK 05011911







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Selection of MPROPERCUSE

- · Incorrect use of the limit switches
- Overloading the platform
- Carrying personnel on the platform
- Improper use of the Push-button control (abusive starting / stopping of the machine)
- Inversion of operating direction before the carriage has completely stopped
- Transporting materials above personnel
- The absence of standard rests or props necessary to correctly stabilise the machine
- The absence of adequate anchoring or ties when lifting unstable loads
- Prohibited use in explosive environment
- The blocking of a functioning part of the machine, including the Up / Down buttons...
- Loading at intermediate levels.

Section 15: GUARANTEE AND REGULAR INSPECTIONS

GUARANTEE.

This material is guaranteed against manufacturing defects for a period of 6 months from the date of invoice to the end-user by COMABI or by our local distributor.

Our guarantee is subject to the purchaser meeting its contractual obligations, especially in relation to payment.

Our guarantee is limited to the simple exchange of components accepted as being faulty by our workshops, or authorised service agent, and formally excludes all other indemnities, no matter their origin.

This guarantee applies exclusively to products used in compliance with the assembly and operating procedures, and recommendations and advice contained in the operating manual.

<u>IMPORTANT</u>: keep your record of purchase (invoice or delivery note) in a safe place because it will be required to apply for guarantee.

REGULAR INSPECTIONS.

Carry out regular inspections of the following:

- the rollers on the carriage
- the lifting cable (never grease nor oil the cable)
- the rollers found on the articulated joint and the pulley of the top section.
- the wire rope tensioning springs and the parachute mechanism springs

The recording of a Maintenance and Servicing logbook is obligatory.

Remember that only the use of original spare parts ensures the proper functioning of the machine and allows to apply for guarantee.

Seation (6) Of Heavior vollence for the

The user must fulfill his obligations concerning the safety of personnel.

The user must ensure that inspections are being carried out in compliance with the national

regulations.

The user must maintain an up-to-date safety logbook.

When storing, shut off all power to the machine and protect the sensitive components from bad

weather (rain, frost, etc.).

In the case of changing site, changing position of the machine or its equipment, you must follow the

dismantling procedure, disconnect the machine from the power source, and respect the environment.

Carry out a visual inspection of the condition of all parts, especially welded joints, at every assembly

and dismantling operation.

If a machine presents signs of ageing liable to cause an accident, it is obligatory for the user to

eliminate the components concerned, that is to say : ensure the impossibility of using the component,

and if necessary the dismantling of the machine.

The destruction of any component part (or of the machine) must be approved and carried out by a

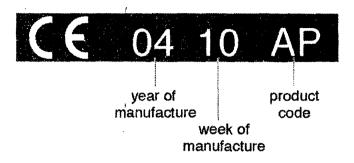
competent person.

Static test coefficient: 1,25

Dynamic test coefficient: 1,1

Statelion al 74 M/A EKGRIG

- All the component parts of the APACHE 4 / BA 150 ST are subject to strict controls at our factory premises thereby guaranteeing the quality of manufacture.
- The most important components carry the CE marking, attesting to the control procedures. Example;



Inspired by Comfort!



