

MODEL 2401-87

PART NO #24 MO-EM



INTRODUCTION

CONGRATULATIONS! You have just purchased one of the most modern scaffolding systems available...HYDRO-MOBILE SCAFFOLDING!

Among the many advantages of this high-performance system are decreased production costs, better quality work and, most important, elimination at the source of the risk of accidents to which construction workers are exposed.

This new Hydro-Mobile scaffolding system nevertheless requires some basic assembly, and a few important safety practices. Our goal in providing this instruction manual is to give you the most accurate information possible, thus enabling you to better understand and properly employ your scaffolding.

Once you have learned to handle your scaffolding safely and efficiently, you will be thrilled with the versatility of the equipment itself and that of your workers!

Our service department is always at your disposal, meeting your requirements for:

- professional technical advice
- on-site inspection (if required)
- our parts and accessories catalogue

We suggest you take the time to read this manual attentively and trust you will find it useful and informative.

The Management

INDEX

Access door	29
Anchors	16-19
Bridge	
Controls	
Engine	
Extender	
Extension 5'6''	
Fasteners, standard and «V»	
Guard rail	
Handling	
Hooks	
Horizontal braces & X-braces	
Levelling	4-5
Lever, Back-up safety hook	7-33
Load bracket	
Loading areas	
Locking bar	
Lowering plate	
Maintenance/service	
Motorized unit (general view)	
Operator walkway	8-14-31
Preliminary guidelines	
Storage boxes	32
Towers	
Wall mounts, adjustable	
	10 10 17 10 10

SYMBOLS



= SAFETY RULE



- UNSAFE



: TECHNICAL RULE



TECHNICAL PROBLEM

IMPORTANT

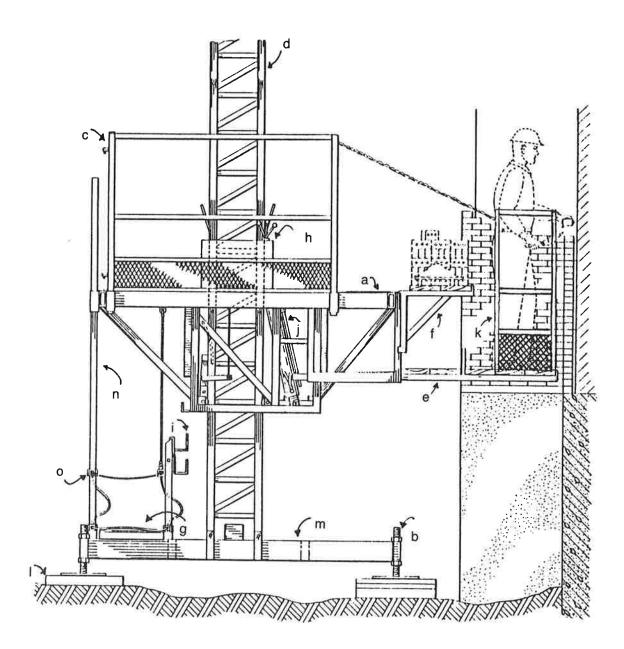


PRELIMINARY RULES

BEFORE MOUNTING SCAFFOLDING

- O CHECK the soil bearing capacity of the ground at the site.
- O DETERMINE or OUTLINE a plan of how motorized units will be placed, along with extension(s) and bridge(s) assembled according to the length of wall(s) of the building to be erected.
- O ESTABLISH the distance between the structure and the platform based on MAXIMUM adjustment of extenders to 5' (1.52 m), taking into account curvatures that must be made around such obstacles as balconies, columns, etc., and then ADJUST the necessary adjustable wall mounts to obtain the length required.
- ALLOW FOR sufficient supplies of all parts required to mount the scaffolding (towers, anchors, adjustable wall mounts. fasteners, X-braces and horizontal braces, etc.)
- OHECK type of structure (wood, concrete, steel) on which you will be working in order to determine how anchors will be inserted.
- O TAKE NOTE of any element that might interfere with mounting the scaffolding, e.g. ELECTRICAL OR TELEPHONE WIRES, CABLES, TREE BRANCHES, ETC. and make any necessary arrangements.
- O AFTER INSTALLATION, mark "off-limit" areas on site (e.g. snow fencing, barriers, warning signs, etc.)
- O NOTE the exact address or location of the site.

GENERAL VIEW OF MOTORIZED UNIT INSTALLED ON SITE



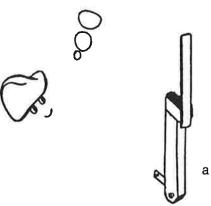
KEY

- a) platform
- b) adjustable leg (4)
- c) guard rail (4)
- d) tower column (2)*
- e) extender (7)
- f) load support (option)
- g) operator walkway (1)
- h) engine housing (1)

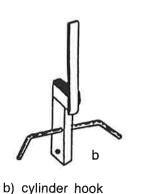
- i) support (2)
- j) hydraulic cylinder (2)
- k) plank end guard rail (option)
- l) support block (4)
- m) base (1)
- n) lowering guide (walkway) (2) o) walkway guard rail (4)

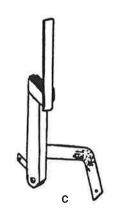
IDENTIFICATION OF HOOKS

There are 3 different hooks on each tower column:



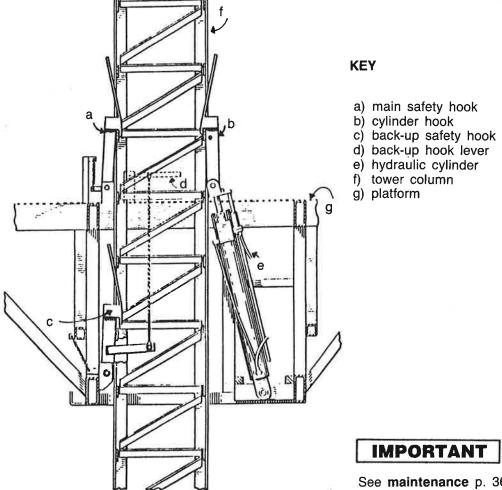
a) main safety hook





c) back-up safety hook

PLACEMENT OF HOOKS ON TOWER COLUMN



See maintenance p. 36

^{*}tower column: superimposed towers. There are 2 tower columns per motorized unit. N.B. tower sets are optional (see #24T3-01)

LEVELLING

CAUTION



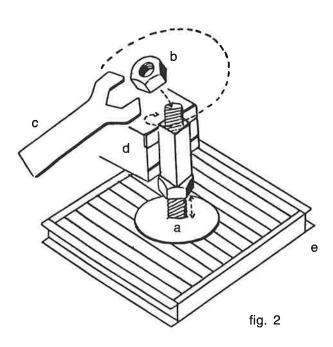
Every time the motorized unit is placed on the ground, ensure there is a maximum deviation limit of 2 in. (5 cm) from one leg to another to avoid distortion of the base.

VERY IMPORTANT

REQUIRED SOIL BEARING CAPACITY

from 50' to 100' = 1000 psi from 100' et 150' = 1500 psi from 150' et 300' = 2000 psi

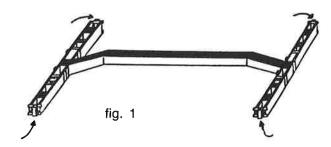
1- If required, place each of the adjustable legs (2) in its respective casing in base (d).
 See figs. 1 & 2



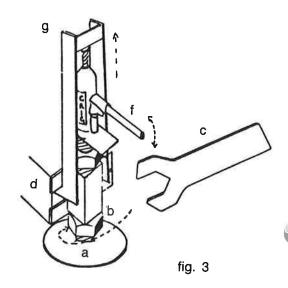
ADJUSTMENT

Insert the base adjustment tool (g) in the base (d), place the hydraulic jack (f) on the upper part of the adjustable leg (a) and under the adjustment tool already in place. Raise the jack to the required height and adjust the lower nut (b) with the wrench (c) if required. Repeat for each leg until the base is perfectly level.

See fig. 3

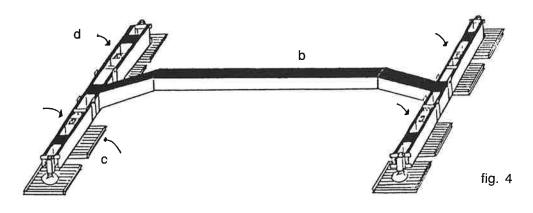


- 2- Before placing the motorized unit, centre each support block (e) under each adjustable leg (a) and level the blocks. If required, add one or more pieces of plywood to a maximum height of 24" (60 cm).
 See fig. 2
- 3- As each adj. leg is placed on the blocks, make any necessary adjustments:



LEVELLING (cont'd.)

For buildings of 8 or more stories, in addition to the adjustable legs already in place at the four corners of the base, additional legs (A) must be added in the appropriate centre spaces (d) of the base (b). Each block (c) should first be centered to correspond to the additional leg and levelled. See figs. 4 & 5



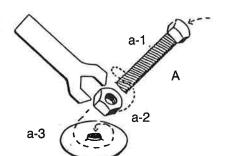


fig. 5

Additional legs (A) are simple to assemble. See figs. 4 & 5

- Introduce the adjusting screw (a-1) into each central space (d) of the base.
- Attach the nut (a-2) to the screw (a-1).
- Screw the whole assembly to part a-3.
- Then adjust each additional assembled leg by turning the nut (a-2) with the wrench, as required, until perfectly level.

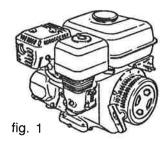
N.B. Additional legs are thus easy to assemble and may be added or removed at any time.

FOLLOW THIS IMPORTANT RULE

Every day, check, the adjustment of each lower nut on each leg. If there has been a thaw or heavy rain, **re-adjust** if necessary.



INSTRUCTIONS FOR CONTROLS



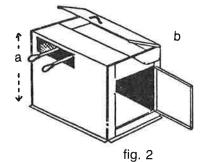
For engine start-up and stopping, as well as maintenance, **see Honda manual for instructions.**

NOTE

After engine has warmed up, set gas lever (see Fig. 1) at 3/4 or approx. 3000 R.P.M.

Check joints in hydraulic tubing regularly to prevent any oil leaks...





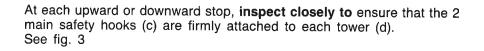
The 2 handles (a) on the engine housing (b) correspond to each of the 2 hydraulic cylinders of the motorized unit and must be moved at the same time. See fig. 2

- To raise: move the 2 handles to their maximum upper limit
- To lower: move the 2 handles to their maximum lower limit

IMPORTANT

See also **bridge** (fig. 5) p. 26 See **lowering plates** p. 33

CAUTION



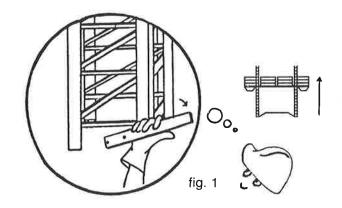


MEMO

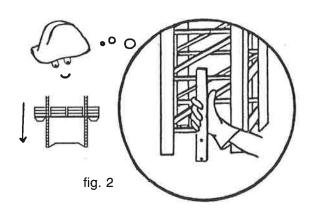
Before any initial operation, do not forget to remove each of the transport locking bars linking the platform to the base at each tower. See **locking bars** p. 34

BACK-UP HOOK LEVERS

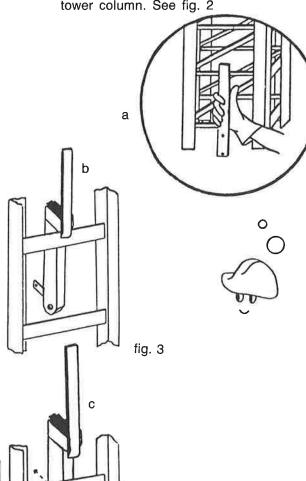
POSITION OF LEVERS



Throughout any raising operation, keep each lever on each tower column to the horizontal position. See fig. 1



Throughout any lowering operation, adjust each lever to the vertical position on each tower column. See fig. 2



CAUTION

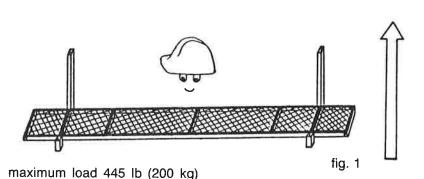
For lowering, **before** setting each lever at the mid-point, make sure each main safety hook (b) is firmly fastened to each tower. This will simultaneously disengage each corresponding back-up hook (c), placing it in the proper position for adjustment of the levers. See fig. 3

CORRECT POSITION MAIN HOOK

CORRECT POSITION BACK-UP HOOK



WALKWAY

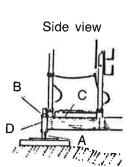


When raising, ensure that upper nut (b) on each adjustable leg (a) is screwed right down to its casing (d) to allow the rising walkway to pass.

See figs. 2 & 3



- a) adjustable leg
- b) upper nut
- c) walkway
- d) casing (base)





6

To get down onto the walkway, use the platform door where rungs are installed. The walkway guard rail may also be used as a step.



SUPPORTS

When the platform reaches the first level place enough X-braces and horizontal braces on supports (A) provided, and installed at each end of the operator walkway (b). See fig. 4

NOTE

Adjustable wall mounts and fasteners should be placed under the platform, on additional supports attached to platform.

fig. 4

Whe horiz remo at fir and

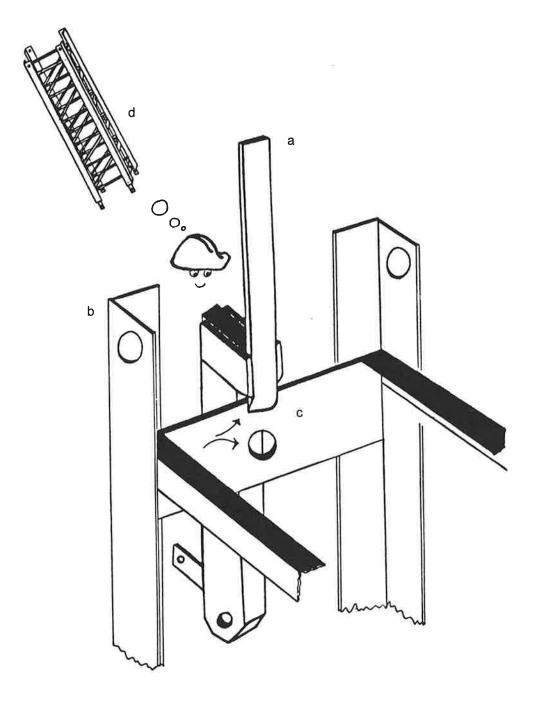
IMPORTANT

Place X-braces on the upper level and horizontal braces on the lower level of the supports for ease of handling at heights.

CAUTION

When lowering, store X-braces and horizontal braces on supports and remove from walkway **before** arriving at first level to avoid crushing supports and contents against platform.

TOWERS (ADDING OR REMOVING)



When each main safety hook (a) is attached to the upper perforated band (c) of the tower (b), it is time to add or remove an additional tower (d) from each tower column.

See next page.

TOWERS (ORIENTATION AND INSTALLATION)

z a fig. 1

1- ORIENTATION

When adding a tower Z to a tower X, check they are in the right direction by ensuring that perforated bands a & b on towers X and Z correspond.

Introduce lower legs (d) of tower Z into the upper legs (c) of tower X.

KEY fig. 1

See fig. 1

- a) upper perforated band
- b) lower perforated band
- c) upper leg
- d) lower leg
- e) outer side of motorized unit
- f) inner side of motorized unit (facing wall)

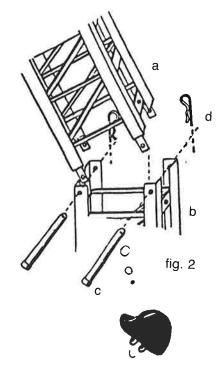


2- INSTALLATION

For each tower column, the additional tower (a) should be inserted into tower b and firmly fastened by sliding tower clevis (c) into holes (hammer may be necessary) and blocking the end of each clevis using a fastening pin (d), taking care to place the curved side of each pin towards the inside*.

See fig. 2

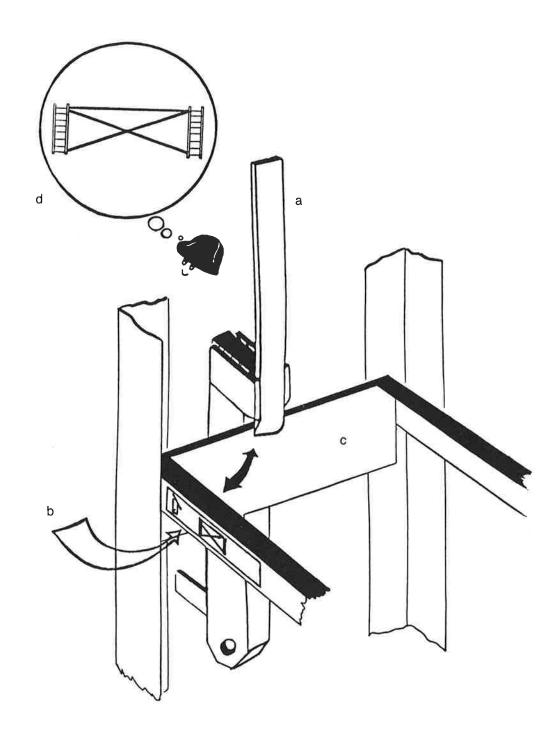
(*This precaution will prevent any damage to spools.)



DANGER

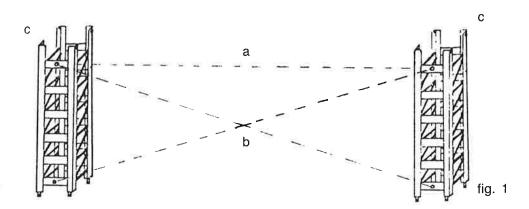
Before mounting, always ensure that each additional tower is fastened with clevis and pins, since serious or fatal injuries may be caused by falling towers.

X-BRACE AND HORIZONTAL BRACE



When each main safety hook (a) is fastened to the tower band (c) at the same level as the red sticker (b), it is time to go down onto the walkway to install an X-brace and horizontal brace (d) (for raising) or to remove them (for lowering).

PLACEMENT OF X-BRACE AND HORIZONTAL BRACE

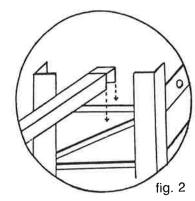


Placement of horizontal brace (a) and X-brace (b) on two corresponding towers (c). See fig. 1

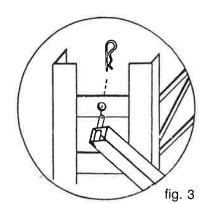
IMPORTANT

- The horizontal brace must always be installed before the X-brace





Place both ends of the horizontal brace on the upper bars of the two towers. See figs. 1 & 2. In case of difficulty inserting, see **adjustment of towers** (C-clamp) p. 13



Next introduce the 4 ends of the X-brace into the 4 perforated bands of the 2 corresponding towers and lock them with pins.

See figs. 1 & 3
In case of difficulty inserting, re-check levelling of base.

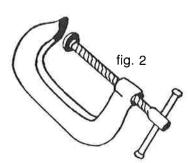
See safe handling of X-brace p. 14.

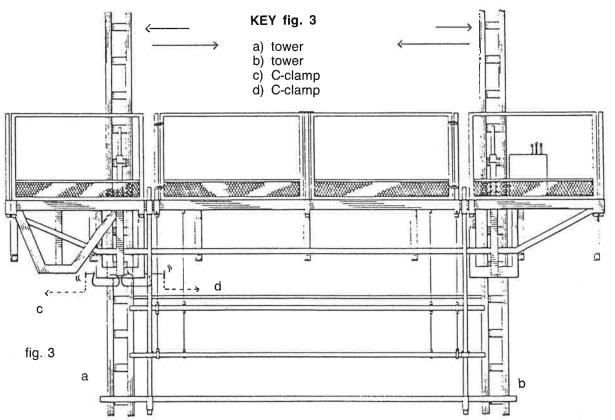
ADJUSTMENT OF TOWERS (C-CLAMP)



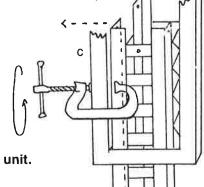
If unable to insert horizontal brace into tower fig. 1

The **C-clamp** (fig. 2) is the ideal tool for manoeuvring two corresponding towers (a & b) closer together or farther apart to achieve the proper spacing for easy insertion of the horizontal brace. See figs. 2 & 3





To move towers apart, install the C-clamp in position "c"
To move towers together, install the C-clamp in position "d"
See figs. 3 & 4
Preferably on the tower opposite the tower shown in figure 1.



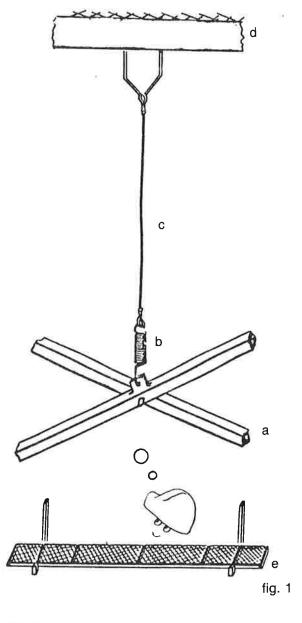
NOTE

In case of difficulty adjusting, re-check levelling of complete motorized unit.



SAFE HANDLING OF X-BRACE

When an X-brace must be installed on or removed from a pair of towers, it is easier and safer to handle the X-brace (a) if it is temporarily supported by a steel cable (c) and spring (b) attached to the platform (d); this will considerably facilitate the work of the operator on the walkway (e). See fig. 1



KEY fig. 1

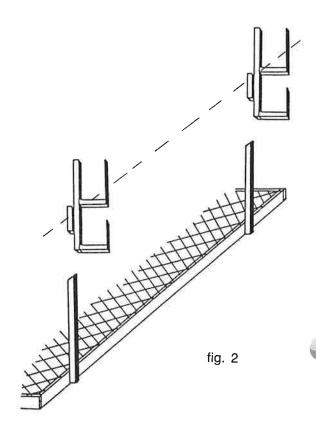
- a) X-brace
- b) spring
- c) 32" steel cable
- d) platform
- e) operator walkway

CAUTION

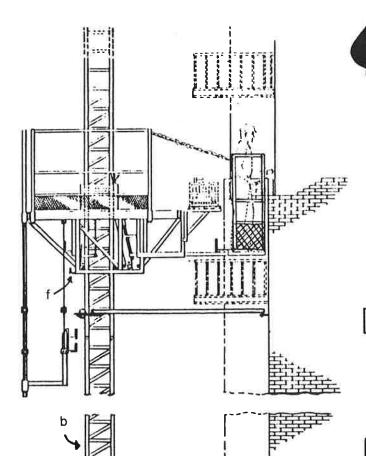
Detach the spring from the X-brace as soon as it is fastened in place or removed.

NOTE

Do not forget to place the X-braces on the upper supports of the walkway to facilitate handling at heights. See fig. 2



ADJUSTABLE WALL MOUNTS



Adjustable wall mounts are mandatory at all times...

At regular intervals of a maximum of 10' (3 m) in height or at each floor or level on each column of towers.

For building 4 stories and over. See "V" fasteners p. 18

IMPORTANT

First measure the distance from the tower (b) to the structure (c) in order to adjust and lock the adjustable wall mounts (a) at the desired height and place them on the supports (f) hanging from the platform.

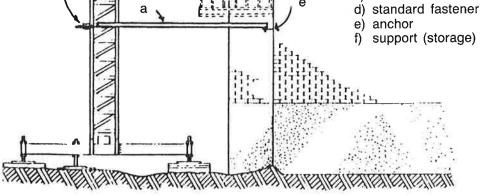
NOTE

There are 3 lenghts of adjustable wall mounts available:

- standard set 65" 7/8 (1.67 m): adjustable from 67" 7/8 (1.73 m) min. to 9" (2.74 m) max.
- 9' set (2.74 m): adjustable from 9'2" (2.79 m) min. to 13'4" (4.06 m) max.
- 36" set (91.44 cm): adjustable from 38" (96.52 cm) min. to 60" (1.52 m) max.

KEY

- a) adjustable wall mount
- b) tower column
- c) structure



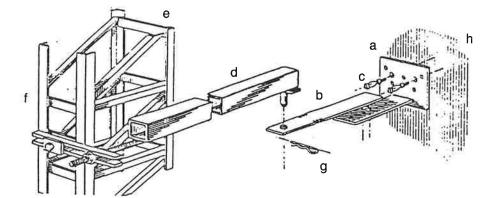
C

See following pages

ANCHORS (ADJUSTABLE WALL MOUNTS)



GENERAL VIEW OF INSTALLATION



KEY

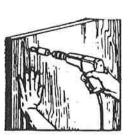
- a) part "a" of adj. anchorb) part "b" of adj. anchor
- c) concrete "Trubolt"
- d) adj. wall mount
- e) tower
- standard fastener
- g) fastening pin
- h) concrete structure

Stage 1

When raising scaffolding, attach parts "a" of anchors directly to structure (h) facing each tower column (e) at each floor level (maximum intervals of 10' [3 m]). These anchors will be used to install the adjustable wall mounts (d).

TO ANCHOR PART "A" OF ANY TYPE OF ANCHOR TO STRUCTURE

See table below:



structure	fasteners	qty	means of attaching	
wood	wood screws	3	wrench	
,,,oou	min. 1/2''ø X 2''			
concrete	concrete "Trubolt"	2	concrete drill	
001101010	3/8''ø X 2 1/4''	_	oonoroto umi	
	steel studs* (ex. «RAMSET») or	_	low-velocity driver only	
steel	weld	3	(e.g. steel-ball driver)	



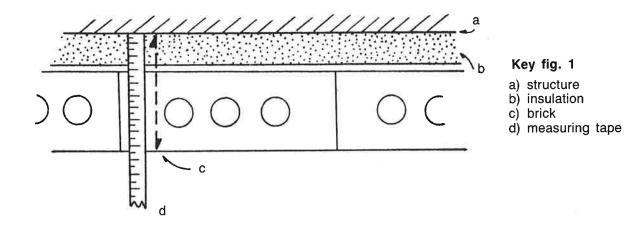
*Check with engineer to determine thickness of steel walls in order to determine dimension of steel studs, which should bear a minimum of 3000 lb (1362 kg) total horizontal stress on each anchor.

IMPORTANT

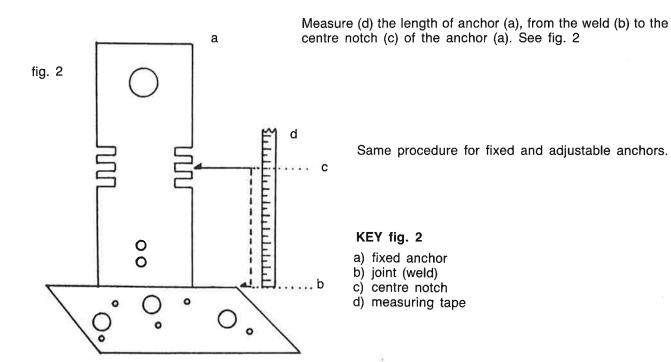
For all types of anchor and structure, part "a" of the anchor fastened to the structure should bear a minimum of 3000 lb (1362 kg) total horizontal stress.

ANCHORS

1. Using a ruler or measuring tape (d), measure from the structure (a) [where the anchor will be placed] to the outside edge of the brick (c). See fig. 1

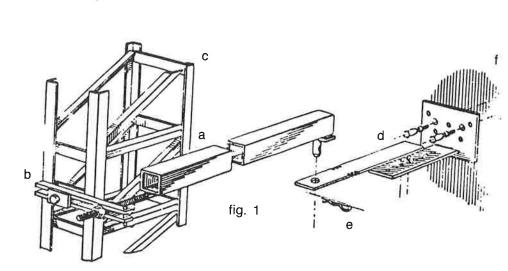


- 2. The measurement gives the required length of the anchor.
- 3. The length of the anchor is calculated as follows:

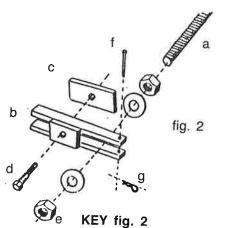


STANDARD FASTENER (ADJUSTABLE WALL MOUNTS)

GENERAL VIEW OF INSTALLATION

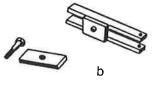


- 1- At each floor [maximum intervals of 10' (3 m)], at the same level as the anchors (d) already placed and fastened to the structure (f), go down onto the walkway and install each fastener solidly on each of the corresponding towers (c). See figs. 1 & 2
- 3- Next introduce the adj. wall mount into the main part of the fastener (b), adjust it and tighten with nuts (e). Then lock the end of fastener (b) using the two pins (f & g). See fig. 2



a) wall mount adjustment screw

- b) main body of fastener
- c) fastener plate
- d) screw
- e) nut and washers
- f) pin bolt
- g) fastening pin



KEY fig. 1

- a) adj. wall mount
- b) standard fastener
- c) tower
- d) anchor
- e) fastening pin
- f) structure

- 2- Insert the adjustable wall mount (a) on the anchor (d) and fasten it* using a pin (e). See fig. 1 (*This operation should be performed from the extenders)



0

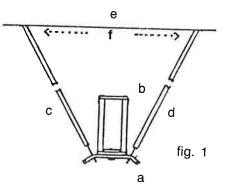
CAUTION

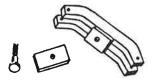
Adjust the wall mount screw using a magnetic level to ensure that each tower is perfectly vertical.

If not correct, check and adjust the screw again until each tower is perfectly level.

"V" FASTENERS (ADJUSTABLE WALL MOUNTS)

FOR BUILDINGS OVER 4 STORIES





Once the platform has reached 40' [12.19 m] in height and subsequently replace standard fasteners with "V" fasteners at each additional 30' [9.14 m].

See diagram in fig. 1 on the placement of adjustable wall mounts (c & d) with "V" fasteners (a)

KEY fig. 1

- a) "V" fastener
- b) tower (column)
- c) adjustable wall mount
- d) adjustable wall mount
- e) structure
- f) distance

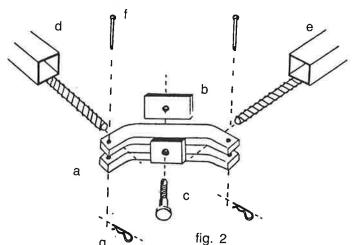


MEMO

Make sure there are enough anchors placed on the structure, at a distance of about 5 to 6 feet (1.52 to 1.82 mm) staggered at each tower column. See f, fig. 1

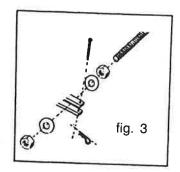
INSTALLATION OF ADJUSTABLE WALL MOUNTS IN "V" FASTENERS

See previous page for method of inserting and figs. 2 & 3 on this page.



KEY figs. 2 & 3

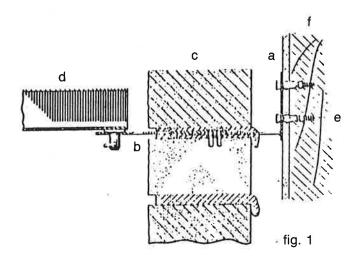
- a) main body of "V" fastener
- b) fastener plate
- c) screw
- d) adjustable wall mount
- e) adjustable wall mount
- f) pin bolt
- g) fastening pin



CAUTION

Always check whether towers are vertical using a magnetic level when installing adjustable wall mounts in "V" fastener.

LAST STAGE (ADJUSTABLE WALL MOUNTS)



Side view showing installation of adjustable wall mount (d) on finished brick wall (c). See fig. 1

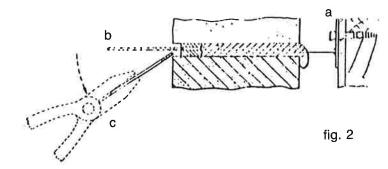
KEY fig. 1

- a) part "a" of anchor
- b) part "b" of anchor
- c) brick wall
- d) adjustable wall mount
- e) concrete «Trubolt»
- f) concrete structure

NOTE

Same principle for all inter-brick anchors* including fixed and adjustable anchors.

FINAL STAGE WHEN LOWERING



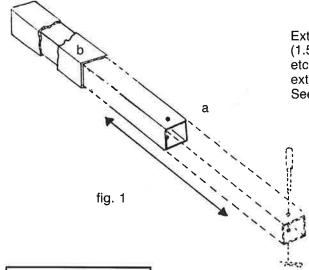
After storing adjustable wall mounts under platform, break part (b) off at mortar joint using pliers (c).

Cover all marks left by anchors with mortar. See fig. 2.

*Inter-brick: category of anchor attached directly to structure and remaining permanently between bricks. Inter-brick anchors are not reusable.



EXTENDERS



Extenders (a) may be adjusted separately up to a limit of 5' (1.52 m) thus allowing for curvatures around balconies, columns, etc. As soon as planks have been stored away, reinsert each extender into its casing (b). See fig. 1

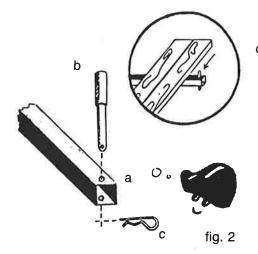
Before installing planks

IMPORTANT

Always ensure that each plank stop (b) is installed on extenders (a) and properly fastened with a pin (c). See fig. 2.

KEY fig. 2

- a) extender
- b) plank stop
- c) fastening pin
- d) plank in place



WARNING

When installing, always leave 5 to 6 inches (13-15 cm) play between extenders and wall to be erected. **Never** place the extender against the structure.

CAUTION

Occupational safety standards stipulate that elements that form the floor "on extenders" must be installed so as not to tip or slide.

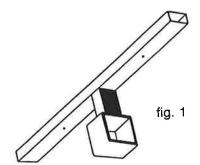
Planks should be placed:

Maximum 12 inches (30 cm) from edge. Minimum 6 inches (15 cm) from edge.



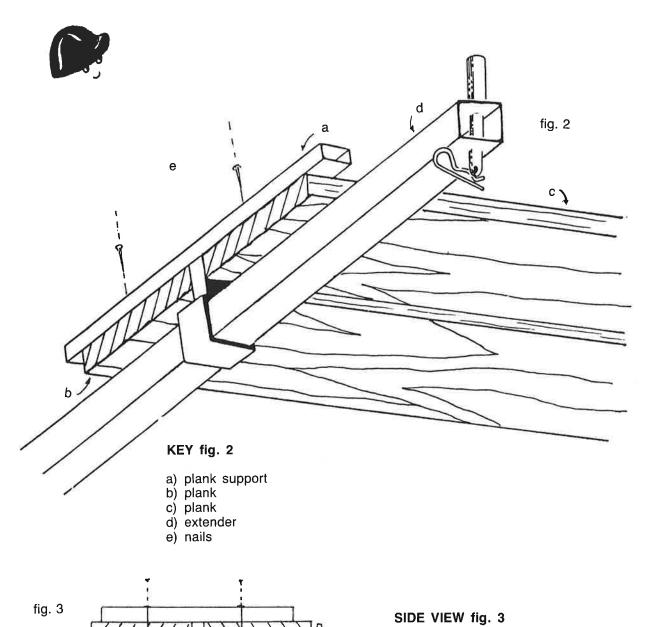
See plank support following page.

PLANK SUPPORT

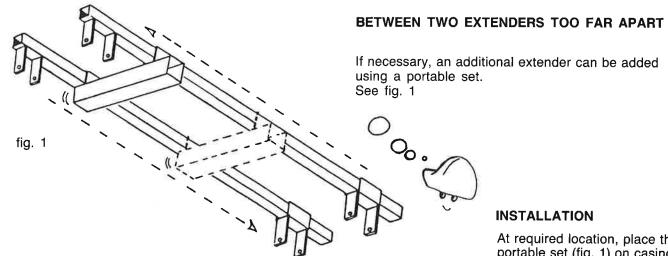


If there is a risk planks will tip, use the plank support (fig. 1) at the end of two planks.

INSTALLATION OF PLANK SUPPORT ON AN EXTENDER



EXTENDERS... (PORTABLE SET)



If necessary, an additional extender can be added using a portable set.
See fig. 1

INSTALLATION

At required location, place the portable set (fig. 1) on casing of each of the adjacent extenders (c & d) and fasten using tower clevis and pins (e) See fig. 2

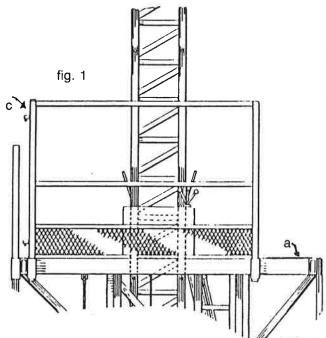
Next, introduce extra extender (b) into movable casing (a) of set, taking care to replace plank stop and fasten with a pin (g) See fig. 2. fig. 2

KEY fig. 2

- a) portable casingb) additional extenderc) extender casing
- d) extender casing
- e) tower clevis and pins
- f) extenders
- g) plank stop and pin

EXTENDERS (END BRACKETS)

FOR A RIGHT-ANGLE WORK SURFACE



End brackets may be placed at each end of the platform of a motorized unit (a) or a left or right 5'6" extension. See fig. 1

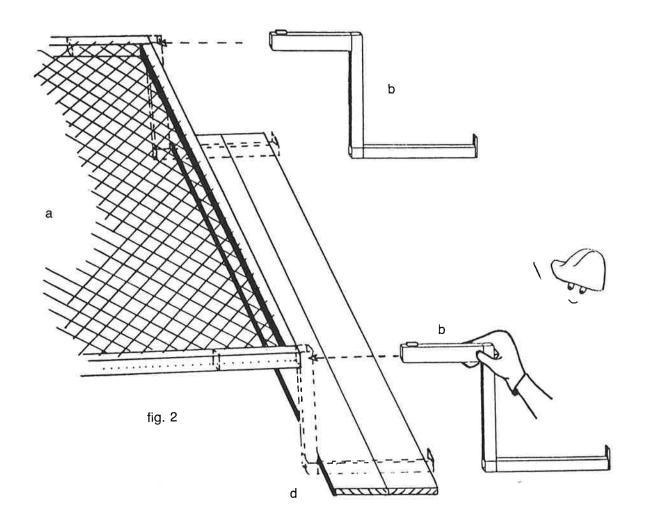
Remove guard rail (c) and introduce each end bracket (b) right into the platform. Figs. 1 & 2

Planks may then be placed on these end brackets taking care to install a plank end guard rail for the safety of

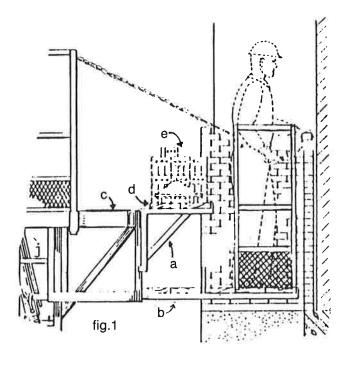
See plank end guard rail p. 28

KEY fig. 1 & 2

- a) platform
- b) end bracket
- c) guard rail
- d) planks



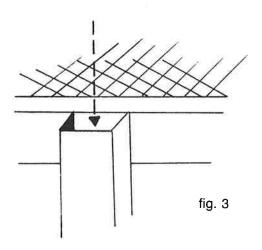
LOAD BRACKETS



KEY fig. 1

- a) load bracket
- b) extender
- c) platform
- d) planks
- e) materials



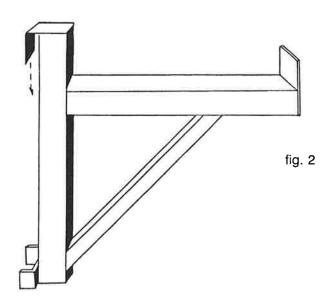


Practical and economical...

To place materials (e) within reach of masons working on extenders (b) too far from platform (c):

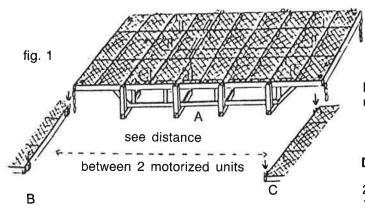
Ensure that load brackets (a) are installed at required locations on platform (c).

On these brackets, install planks (d) on which the necessary materials (e) may be placed. See fig. 1



Simply introduce each load bracket required (fig. 2) into recesses located on platform (fig. 3)

BRIDGE



Plan layout before installing bridge (A) linking two motorized units (B & C). See fig. 1

DISTANCE REQUISED BETWEEN 2 MOTORIZED UNITS

20'	bridge	*	20		*	•			*0	*			approx.	18'	(5,50	m)	Ì
16'	bridge	्	÷	7			٠			ş			approx.	14'	(4.27)	m)	



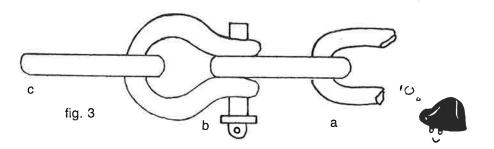
VERY IMPORTANT

1. Place bridge with bridge junction recesses (a) corresponding to those of one of the motorized units (B or C)*.

Introduce the studs (x) chained to the bridge (a) into these recesses and fasten with a pin (e). See figs. 1 & 2

* this will allow room for expansion when one of the two motorized units sways.

2. Attach the four chains of bridge (a) to the corresponding welded link (c) on both connected motorized units, using the shackle (b) attached to each chain. See fig. 3



KEY fig. 3

- a) bridge chain link
- b) shackle
- c) chain link welded to motorized unit.

Once chains have been attached, check tension on each chain regularly.

Rule of thumb:

Chains should never be taut, maximum slack permitted 2 in. (5 cm) per chain.

If chains taut or more than 5 cm slack per chain: re-check complete levelling of each motorized unit.

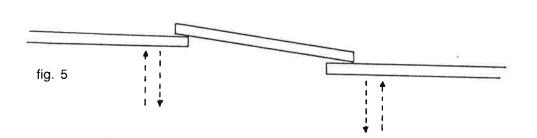
BRIDGE... (cont'd)

3. Replace guard rail.

IMPORTANT

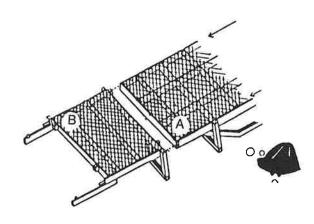
When raising or lowering motorized units joined with bridge(s), one cycle of 10 in. (25 cm) at a time per operating motorized unit is permitted, so as to allow reasonable slope of bridge(s). See fig. 5





DANGER

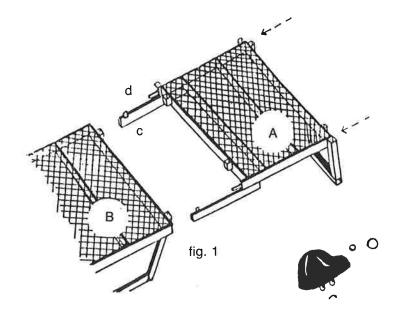
Never attach a bridge (A) to a 5'6" extension (B) or vice versa.



IMPORTANT

See also weight chart and loading areas p. 31.

5'6" EXTENSION (LEFT AND RIGHT)



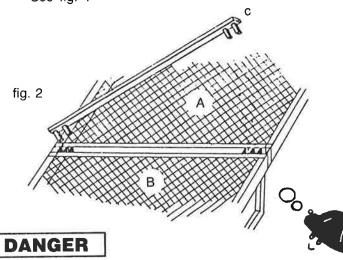
Use of left and right 5'6" extensions is strictly limited to the sole purpose of lengthening the motorized unit.

DANGER

Never attach a 5'6" extension to a bridge or other 5'6" extension.

1. Introduce small legs of 5'6" extension (A) into appropriate recesses on motorized unit (B) by inserting the two arms of the extension (C) under the platform.

See fig. 1



- At the assembly joint of part (B) of the motorized unit and part (A) of the extension, fasten using an extension stud (C) in the appropriate recesses.
 See fig. 2
- 3. Replace guard rail.

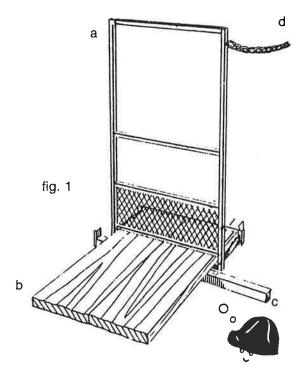
NEVER LOAD 5'6" EXTENSIONS FROM FORK-LIFT TRUCK.



And do not forget to deduct from the 4 545 kg (9 999 lb) max. load on each motorized unit the total weight of the 5'6" extension + the weight of its load, which must not exceed 400 kg (880 lb).

See weight chart and loading areas p. 31

GUARD RAIL, PLANK END

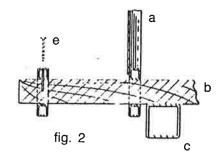


For maximum safety, use plank end guard rails by inserting one guard rail at each end of the planks at the end of the scaffolding.

Attach chain to adjacent guard rail. See figs. 1 & 3

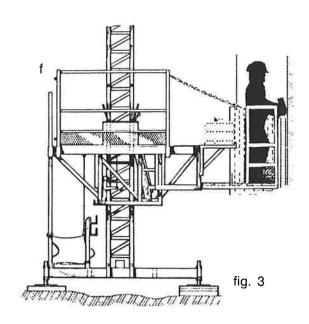
KEY figs. 1, 2 & 3

- a) plank end guard rail
- b) planks
- c) extenders
- d) chain
- e) nails
- f) adjacent guard rail



INSTALLATION

Attach each guard rail (a) firmly to planks (b) by hammering nails (e) into guard-rail cavities. See fig. 2



GUARD RAILS AND ACCESS DOORS

2. After inserting each leg of guard rail (a) in recess (c), fasten using guard-rail pin 7/8" X 3/8" and a

fastening pin* *inside leg

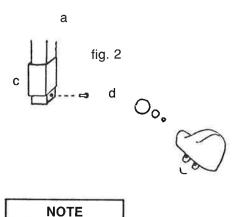
See fig. 2

fig. 3

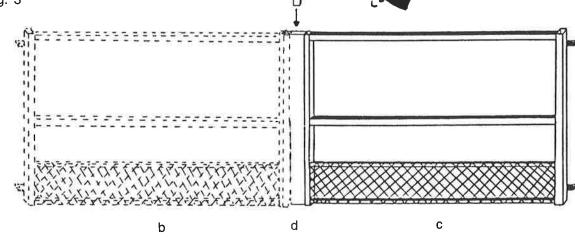
Guard rails (access doors) are mandatory at all times on the motorized unit, bridge and 5'6" extensions.

INSTALLATION

1. Insert each guard rail (a) into recesses (c) on platform (b) See fig. 1

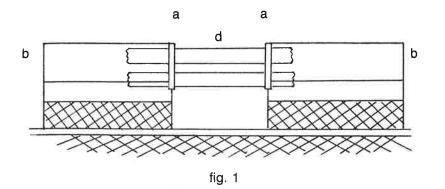


Same procedure for inserting access doors (b & c) and centre post (d). See fig. 3



When loading from a fork-lift truck, open access doors; after closing access doors (b & c), remember to fasten using access door lock (a) by introducing lock into each cavity of the two doors and centre post (d). See fig. 3

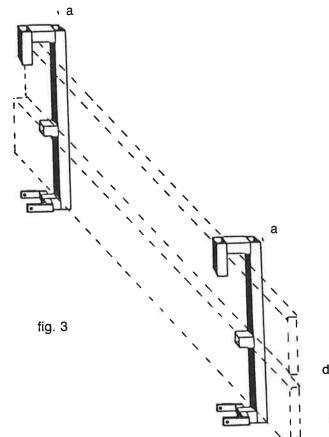
GUARD RAIL PLANK SUPPORT

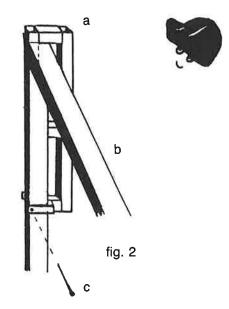


If two guard rails (b) are too far apart from one another (danger of falls), use guard rail plank supports (a) and block using two planks (d). See fig. 1

INSTALLATION

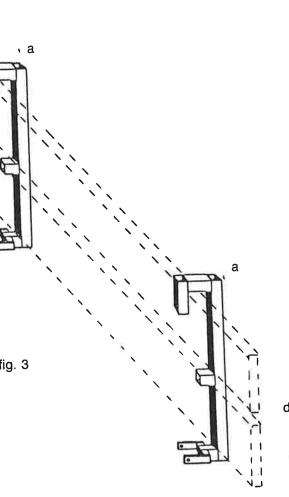
Place each guard rail plank support (a) on each guard rail involved (b) and fasten using a screw and bolt (c). See fig. 2





KEY figs. 1, 2 & 3

- a) guard rail plank support
- b) guard rail
- c) screw 3/8" X 3 1/2" with incl. nut.
- d) planks (2)



LOADING AREAS



XXXXX

Never load areas marked with red "X" from a forklift truck:

- o each end of motorized unit
- hydraulic zone
- ° each end of bridge
- o left or right 5'6" extension

WEIGHT CHART

description	total weight	permitted load			
motorized unit	5,580 lb (2540 kg)	9,999 lb (4,545 kg)			
5'6" extension	463 lb (210 kg)	880 lb (400 kg)			
20' bridge	1,222 lb (555 kg)	1,760 lb (800 kg)			
walkway	see motorized unit	445 lb (200 kg)			

IMPORTANT

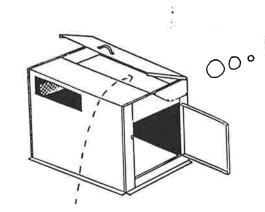
Deduct from permitted load of 9,999 lb (4,545 kg) on motorized unit the weight of the bridge* and extension(s) attached to it, also including their respective loads.

- N.B. Deduct walkway load from 9,999 lb (4,545 kg).
- * Equally distribute total weight + bridge weight over the two motorized units joined by the bridge.

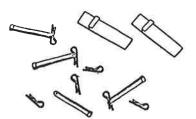
FOR SUPPLYING TOWERS:

Very safe and practical, the tower cage can hold up to 10 towers at a time and has brackets that facilitate handling by fork-lift truck. See fig. 2





To prevent parts such as tower clevis, pins, lowering plates, etc. from falling and being lost; **Store** immediately after use in box on engine housing.



NOTE

2 other storage boxes are also installed on each motorized unit.

— Box No. 1

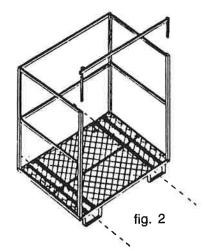
Attached to base for storing such elements are tools used for levelling, e.g. hydraulic jack, adjusting wrench, adjusting tool, level and walkway supports, locking bars, etc.

- Box No. 2

Next to extender supports, for storing anchors and material required to attach them, masonry tools, etc.

SECURITY

After use, it would be wise to padlock each storage box, particularly the box on the base.



LOWERING PLATES

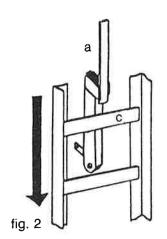
... cont'd

To obtain the required space between each hook and the band, so as to insert plate, read the following:

WARNING

Different procedure for each hook:

MAIN SAFETY HOOK



To space each main safety lock (a) from tower band (c).

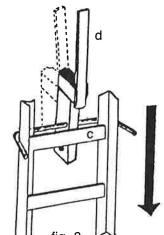
column.

Bring handles up as high as they will go until revolution of engine decreases. Insert each plate. Lower. After cycle, remove each plate and alternate it to cylinder hooks (fig. 3).

Alternate same plate from one hook

to the other (a & d) on each tower

CYLINDER HOOK



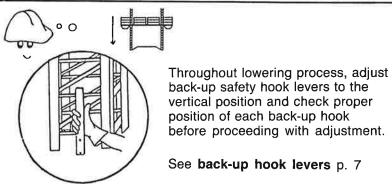
To space each cylinder cylinder hook (d) from

tower band (c).

Bring handles down as low as they will go until engine revolutions decrease. Lower. After cycle, remove each place and alternate it to main safety hooks (fig. 2).

When lowering, main safety hooks (fig. 2) and cylinder hooks (fig. 3) must be disengaged at the same time and alternately using the lowering plate (b), by hooking each lowering plate onto the outside of the tower band (c) on each tower column. See fig. 1

N.B.



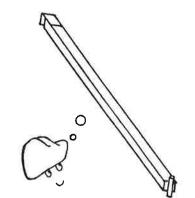
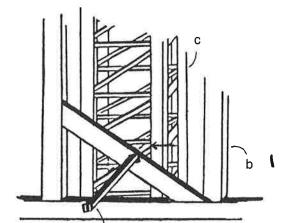


fig. 1

LOCKING BARS

IMPORTANT

Before transporting or moving motorized unit(s) from one site to another, remember to install locking bars (fig. 1) under each tower column. This procedure will temporarily join the base and platform of the motorized unit during transport or handling.



INSTALLATION

Introduce locking bar (a) into each of the lower towers joined (c) at base. Under each tower column, an arrow indicates the exact location of each locking bar. See fig. 2.

KEY fig. 2

- a) locking bar
- b) platform structure
- c) lower tower

MEMO

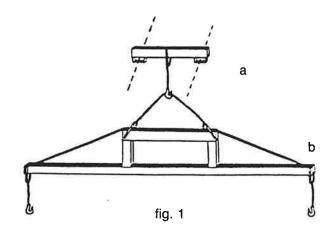


Before mounting, remember to remove each locking bar and store in nearby storage box.



fig. 2

HANDLING APPARATUS (FOR MOTORIZED UNIT ONLY)



The motorized unit is equipped with brackets under the platform allowing it to be transported using a fork-lift truck.

If space is limited and a fork-lift truck cannot reach the desired location, the **handling apparatus** (fig. 1) is ideal for safely moving or installing the motorized unit on a construction site.

Wind each chain of Section B around each of the

On motorized unit, distribute weight

equally for proper balance of motorized unit suspended from

handling apparatus.

The handling apparatus is in two sections.

KEY figs. 1 & 2

Introduce forks of lift truck into section A of handling apparatus and hook it into section B. See fig. 1

a) Section A b) Section B c) upper band (tower) d) tower tower columns on upper band (c) of each tower, and fasten with hook on one link of the chain (b). See fig. 2 CAUTION

fig. 2

MAINTENANCE





DAILY 1 / day

- Check levelling of complete motorized unit(s)
- Check level of engine oil (see HONDA manual)
- Check fuel level
- Clean off any residue of cement or mortar which, when dry, might interfere with proper operation of scaffolding.

WEEKLY

1 / week

- Check hydraulic piping joints regularly to prevent any leak of hydraulic oil
- Inspect closely for any distortion to metal parts such as bridge, towers, base, extensions, hooks, etc., due to improper handling or excessive load.

MONTHLY 1 / month

- Grease all spools
- Oil all hooks (at notch)
- Oil all adjusting screws on adjustable and additional legs
- Check level of hydraulic oil (min. 3-4" from edge). Ex.: Shell DONAX-TG (automatic transmission oil).

ANNUALLY

1 / year

- Paint overall OR
- Touch up areas likely to rust.