

IFF ADVANCED RIGGING 2C Friction Pantograph Top User Manual

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IFF ADVANCED RIGGING 2C Friction Pantograph Top

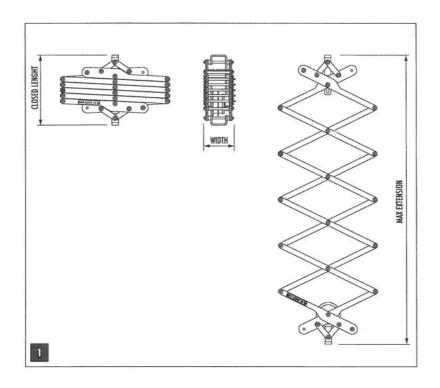


FRICTION PANTOGRAPH

The friction pantograph is made of oluminum (P-AI MgSi UNI 3569) and monufactured according to DIN 15560-46

The load is supported by a steel cable of 2 mm diameter (safety foctor 12). loads up to 12 kg (26.4 lbs) can be suspended using only the patented friction device, while loads up to a maximum of 18 kg (39.7 lbs) require the use of the optional springs.

In any cose, it is always advisable to use the springs to aid raising your pontogroph. To choose the proper one please refer to chapter "CHOOSING ANO INSTALLING A SPRING".



Model	ff3S12	FF3S14
Notched ringcolour	BLUE	RED
Extension	200 cm·79"	380 cm·150"
SpringAvailable	Type 4 (Red) FF3531	Type 4 (Blue) ff3533
	Type 12 (Red) FF3532	Type 12 (Blue) ff3534

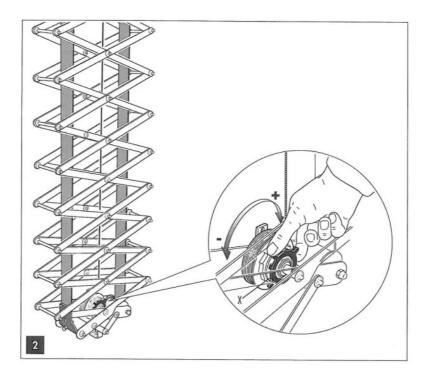
Spring type	Counter balanced Weight
Without spring	from I (2.21bs) to 4 kg (8.Blbs)
Type 4	from 3 (6.6lbs) to 8 kg (I7.61bs)
Type 4 +Type 4	from 8 (17.61bs) to 14 kg (30.Blbs)
Type 12	from 9 (I 9.Bibs) to 16 kg (35.31bs)
Type 4 +Type 12	from 13 (28.61bs) to 18 kg (39.?lbs)

FRICTION ADJUSTMENT

The pantograph con be regulated to keep suspended loads from 1 kg (2.2 lbs) to 18 kg (39.7 lbs) pertectly balanced. By turning the notched ring "X", you con adjust the pantograph's friction; this will ensure that the load remains stable when set in position, but that it will move smoothlyup and down when necessary.

PLEASE NOTE: The friction mechanism does NOT help lih the load, it only holds the load in the desired position and stops it from dropping

downwards. Use the appropriate springs to help with load lifting. For further information, please refer to the chapter "Choosing and Installing Additional Springs".

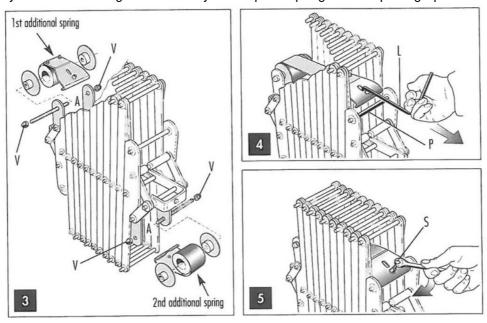


Insert the appropriate spring in housing "A" and block it with nuts "V" using appropriate wrench.

Use the hook "L" to pull the spring head over stud "P". Block it with screw "S" to guarantee that the spring con not unhook itself and to ensure that the pantograph adheres to safety regulations.

While the spring hook-up operation is very simple, it can be dangerous if not carried out with care.

Note: We advise you to wear work gloves and only hook up the spring with the pantograph in the closed position.



CHOOSING AND INSTALLING ADDITIONAL SPRINGS

When choosing the additional spring (s) for your pantograph, you will first need ta know exactty which model of pantograph you

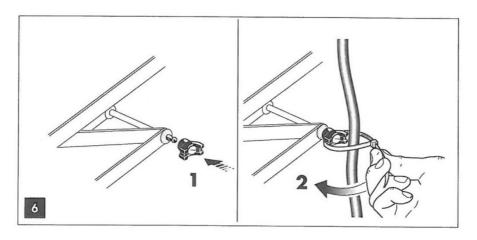
hove, in order that you con select the spring of the correct length. If you hove one of the new compact pantographs (with grey-pointed "scissors"), look at the colour of notched ring "X" (see chapter "Friction Adjustment"): the 2m (79") version hos o red notched ring, while the 3.8m (I 50") version hos a blue notched ring. After having identified the length of the pantograph, choose the appropriate spring/springs by refering to the table below.

Model	ff3S12	FF3S14
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CABLE AND HOLDING CLIPS

- Mount the supplied coble-holding clips as shown.
- With the pantograph closed, pass the power coble through the clips and secure it with coble ties (not supplied).
- Recommended coble ties from 3 to 4,5mm width.



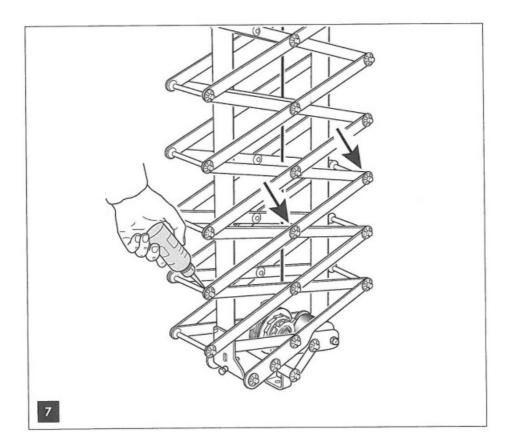
MAINTENANCE

To ensure your Pantograph continues to work correctly and safely, you must make the following regular checks: Every 6 months:

Check that the steel wire and counterweight springs (if installed) ore in good condition – that they ore not kinked or twisted and that they show no sign of cuts/breaks or other irregularities. Check that all screws on counterweight springs ore tight.

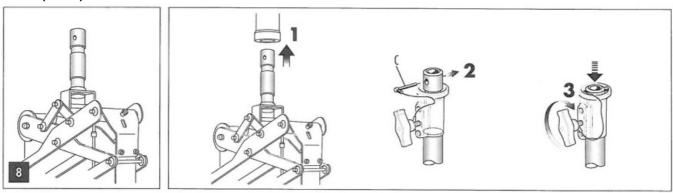
Check that all the fixing screws on top and bottom attachments ore tight and that the pantograph is firmly fixed to the supporting structure. If required, lubricate connecting points of the double scissor as indicated in figure 7, use a dry lubricant such as PFTE(Teflon). Never lubricate the friction drum or coble

Note: All the operations above described and all operations necessary for the use of the pantograph must be carried out by trained staff.



TOP ATTACHMENT

28MM (I-1/8") - MALE ATTACHMENT

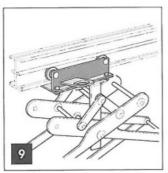


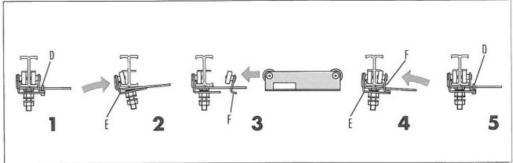
We recommended to use only hanging device complete of safety pin.

The spigot hos on hole drilled through it, into which you should insert the safety pin" (" in such o way that it protrudes equally from both sides of the 28 mm (I 1/8") spigot.

TOP ATTACHMENT

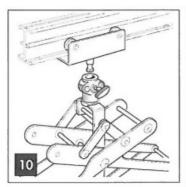
SPRING BRAKED OISMOUNTABLE CARRIAGE FOR IFF RAIL TYPE 50, 60 OR 80

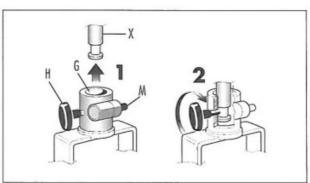




- Follow these operation to mount or dismount the corrioge from the roil (type 50, 60 or 80).
- First completely unscrew the bolt ond nuts "D" (fig. I).
- Take part "E" and place it on the rail os shown in figure "2".
- Take part "F" and place it on the rail as shown in figure "3".
- Slide the two port "E" and "F" in order to joint them (fig. 4).
- Lock securely bolt and nuts "D" (fig. 5).

16MM (5/8") FEMALE ATTACHMENT





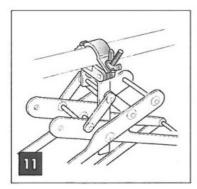
Unscrew knob "H", depress button "M", insert the mole attachment "X" on the hole "G" and release the button. lock firmly knob "H": ensure that the knob is able to seat in the recessed safety groove on the mole attachment (fig. I 0) Button "M" serves as safety catch, but it is strongly recommend to secure the load with appropriate safety coble (not supplied).

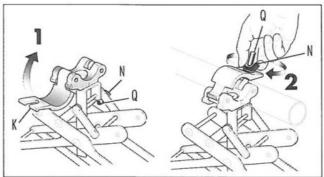
To dismount the pantograph proceed as follow: HOLDING the pantograph with one hand, unlock the knob "H" and then depress button "M".

ALUMINUM CLAMP FOR PIPE DIAM 42-;-52MM (1·1/4" -;-2")

FIX THE PANTOGRAPH ONTO THE BARREL

Unscrew wing nut "N" to release mobile iow "K". Fix the clomp onto the barrel by using the rod "Q" and the wing nut "N"





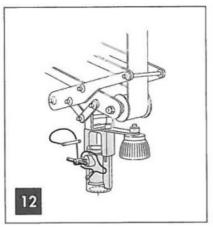
BOTTOM ATTACHMENT

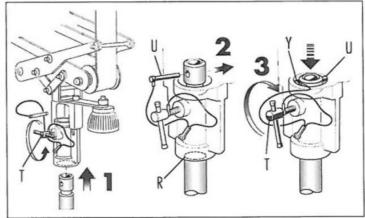
28MM - (I-1/8") FEMALE ATTACHMENT

Loose knob 'T' until 28 mm (I I /8") luminair spigot can be fully inserted into the clomp. Insert the 28 mm (I I /8") luminoir spigot on the female onochment "R" until it protrudes as shown in figure 12.

The spigot hos on hole drilled through it, into which you should insert the safety pin "U" in such a way that it protrudes equally from both sides of the 28 mm (I 1/8") spigot.

Now lift the clomp so that the safety pin "U" seats captive in the recessed depression "Y" and tempororily holds the weight of the luminoir. Then tighten the locking lever "T" firmly against the recessed sofety grove on the spigot.

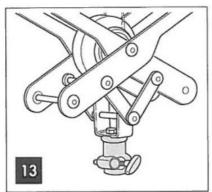


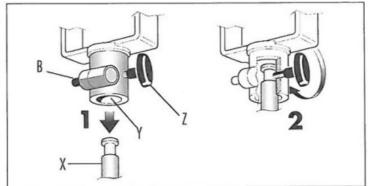


6MM · (5/8") FEMALE ATTACHMENT

Unscrew knob "Z", depress bunon "B", insert the mole onochment "X" on the hole "Y" and release the bu non. Lock firmly knob "Z": ensure that the knob is able to seat in the recessed safety groove on the mole onochment (fig. 13)

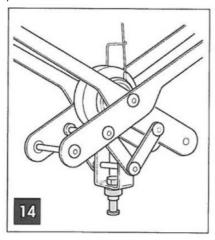
Bunon "B" serves as safety rntch, but it is strongly recommend to secure the load will1 appropriate safety cable (not supplied). To dismount the load proceed as follow: HOLDING the load with one hand, unlock the knob "Z" and then depress bunon "B".

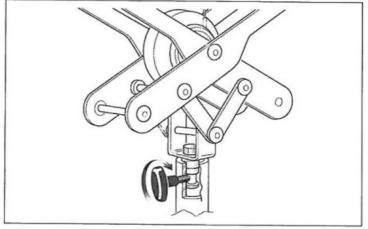




6MM (5/8") MALE ATTACHMENT

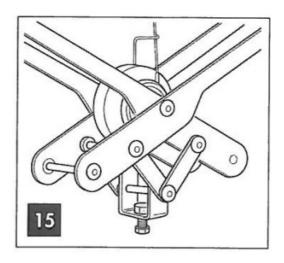
Always ensure that the knob all the 16mm (5(8") female attachment seat in the recessed safety groove an the pantograph 16mm (5/8") male attachment. It is recommend to secure the load with appropriate safety coble (not supplied).





M 10X30MM SCREW WITH NUT

After mounting the load and firmly locked, secure it with appropriate safety coble (not supplied).



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