

HOIST MAINTENANCE AND CARE: THE GRAVITY 1200 POWER HOIST

In a fast-paced world, significant steps must be put in place to improve the build quality of telecommunication equipment installations and the building of towers. With an increased number of Gravity 1200 Power Hoists currently in the market, we have seen a significant improvement on site build quality and site build efficiency, as well as reduced safety risks due to smaller teams needed on site.

To increase the longevity of your Gravity 1200 Power Hoist it is crucial to properly use and maintain the hoist. This can be done, for example, by using the proper fuel mixtures, following the correct maintenance schedules and adhering to correct general site usage.

Below are some key factors to consider when maintaining your Gravity 1200 Power Hoist:



TWO-STROKE FUEL MIXING TABLE

Petrol (litres)	Ratio of Petrol:Oil	
	33:1	50:1
	Oil (millilitres)	
1	30.3	20
5	152	100
10	303	200

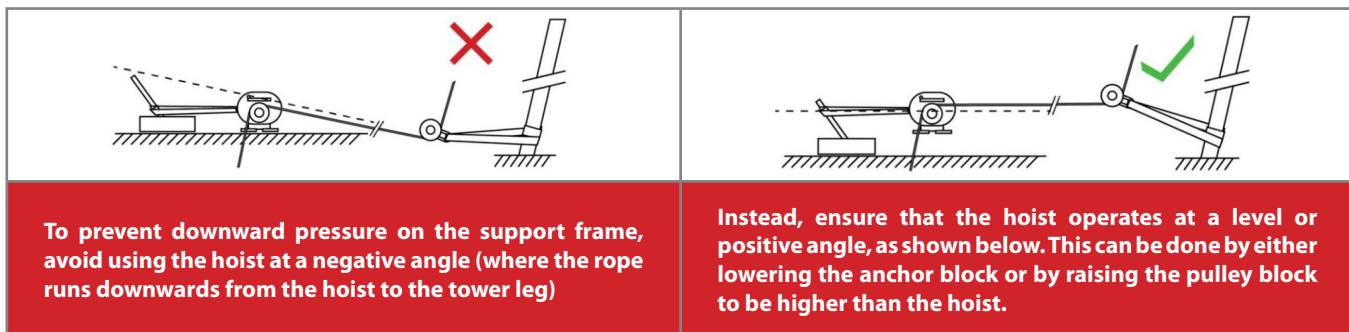
1. CORRECT FUEL MIXTURE

When refueling, it is imperative to use the appropriate fuel and maintain the correct two-stroke oil-mixture ratio. The recommended ratios are as follows:

- When using high-quality two-stroke oil (synthetic ester oil offering superior performance and protection), mix fuel at a ratio of 50:1
- When using lower quality two-stroke oil (conventional or regular oil; a more cost-effective option), mix fuel at a ratio of 33:1

2. CORRECT ANCHORING

Anchoring the hoist is crucial to prevent the hoist from pulling into the ground and damaging the protective support frame. Before applying force, ensure that the hoist has been set up in accordance with the procedures in your training syllabus.



To prevent downward pressure on the support frame, avoid using the hoist at a negative angle (where the rope runs downwards from the hoist to the tower leg)

Instead, ensure that the hoist operates at a level or positive angle, as shown below. This can be done by either lowering the anchor block or by raising the pulley block to be higher than the hoist.

3. CORRECT STARTING PROCEDURE

Starting the hoist correctly is crucial as you can flood the hoist if not careful. Follow the correct starting sequence for the hoist, as taught during training. For easy reference, follow the links: [How to start a Gravity Hoist >English](#) | [>French](#)

4. TRAINED OPERATOR

Mechanical Rigging and Lifting Training is crucial when operating any hoist. Having only trained operators use the hoist will ensure the longevity of the hoist and associated equipment.

5. INSPECTION AND MAINTENANCE

Regular inspections and servicing form a crucial part in maintaining the Gravity 1200 Power Hoist. Always perform a pre-use inspection before starting the hoist.

Servicing of the hoist is categorised into minor and major service intervals:

- After two tower builds, a minor service is required.
- After four tower builds, a major service is required.

Remember, adhering to these guidelines will help maintain the optimal performance of the hoist. That, in turn, will improve your build quality, efficiency and safety.

