

# Operation Manual

## Balancer 50798

**XPO** the **tool**  
experts



Illustration similar, may vary depending on model

Please read and follow the operating instructions and safety information prior to initial operation.

Technical changes reserved!

Illustrations, functional steps, and technical data may deviate insignificantly due to continuous further developments.



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## Introduction

Thank you for choosing to purchase this quality product. To minimise the risk of injury, we ask you to always take some basic safety precautions when using this product. Please read this operating manual carefully and make sure that you understand it. Keep these operation instructions in a safe place.

## Description

Balancers are used as accessories for cranes and chain hoists in car repair shops and help positioning/aligning the engine accurately. The risk of the engine canting when installing or removing it is minimised, whereby an uncomplicated working process is ensured. Then balancer includes four 30 cm long chains with safety hooks and extra-large fixing eyelets. It is longitudinally adjustable by 340 mm with the help of a screw drive with crank handle.

## Safety instructions/warnings



The owner and/or user must have read and understood the operating instructions of the device before using it. Installed personnel should be cautious, competent, trained and qualified in the safe handling of the working equipment used when working on engines and their components. Warnings should be read and understood.

- Be familiar with the application control, application process, and warnings.
- Make sure to know the contents of the instructions for use.
- This device is not intended to be used by persons (or even children) with reduced physical, sensory, or mental abilities or persons who do not have the appropriate experience or knowledge, unless they are supervised by a person responsible for their safety or have been instructed previously by such.
- Children must be supervised to ensure that they do not play with the device.
- Make sure that the charge is free and that no obstacles hinder/prevent the lifting process.
- Ensure that no one is near the charge.
- Warn persons present before lifting the charge.
- Immediately report to your supervisor or workshop as soon as something unforeseen happens
- Never lift more than maximum allowed.
- Never use damaged non-functioning balancer.
- Never use bent, damaged, or worn load-bearing devices.
- Never lift the load if an obstacle could interfere with the lifting process.
- Stay concentrated and do not allow any distraction during the process.
- Never use the load receptacle to lift, help or transport people.
- **NEVER LIFT LOADS OVER PERSONS' HEADS!**
- Unsecured charges can result in injuries to limbs or bones, including fatal injuries.
- Do not let the charge lifted out of sight.
- Avoid contact between the balancer and other objects.
- Never attempt to extend or repair the load receptacle
- Do not use welding equipment near the support.
- Always ensure optimal lighting of the workplace.
- Be sure to wear solid footwear, use a hairnet for long hair, wear tight clothing, take off jewellery (rings, earrings, watches, etc.), and be careful not to wear loose straps or belts.
- Only use the balancer if you feel physically capable of doing so.
- Long working in upright position can lead to dizziness. Make regular breaks and drink enough.



- Do not overload the jack. Never use the balancer like a car jack. This balancer is intended only for assistance in the installation and to remove parts of the vehicle.
- Only use the balancer on straight and solid ground that can carry the specified loads.

## Description

The 750 kg balancer is used between a lifting hoist and an unwieldy heavy load such as a complete car engine with gearbox. The device is designed in such a way that it can lift the object to be lifted as efficiently as possible and at the same time allows the user to turn and position the object while doing this.

## Owner's/user's responsibility

- The owner and/or user must understand the manufacturer's operating instructions and warnings before using this device.
- Owner and/or user must study and maintain for future reference the manufacturer's instructions.
- Owner and/or user are responsible for keeping all warning labels and instruction manuals legible and intact. Replacement labels and literature are available from the manufacturer.

## Inspection

- Visual inspection should be made before each use of the device, checking for damaged, loose, or missing parts.
- Each component must be inspected by a qualified repair facility immediately if accidentally subjected to an abnormal load or shock. Any component appearing to be damaged in any way, found to be badly worn, or operating abnormally **MUST BE REMOVED FROM SERVICE** until necessary repairs are made by a qualified repair facility.
- Annual inspection of the device by a qualified person is recommended.

## Operating the device

1. To remove a car or truck engine with transmission, first uncouple the transmission and remove motor mount bolts.
2. Position the balancer directly above the engine.
3. Attach the L-shape connections at the end of the four chains to the engine head bolts – two at front, both sides, and two at rear, both sides.
4. Now the motor can be raised slowly and carefully with the help of the balancer. After a few centimetres, check that the load is still balanced. To be able to readjust the desired balance of the motor, the position of the movable axis of rotation can be changed with the help of the hexagonal crank.
5. Then carefully remove the motor and gear unit from the motor housing.
6. Turn the motor by moving the handle to the left or right.
7. To reinstall the motor, follow the previous instructions in reverse order.



### Attention:

- **For this type of loads and others, make sure that all connections are tight and secure before operating the hoist.**
- **The following operational instructions are recommended to prevent serious personal injury or damage. Never use this device with an engine hoist having a capacity of less than 1 t!**

**Operator should ALWAYS**

- Be familiar with operating controls, procedures, and warnings.
- Make sure that all connections to load are tight and secure.
- Make sure to know the content of the operational instructions.
- Make sure that load is free to move and that no obstructions may hinder/prevent the lifting.
- After a few centimetres, check the load for balance before continuing.
- Avoid that the load swings.
- Make sure that all persons stay clear of the suspended load.
- Warn persons before lifting the load.
- Protect load chain from weld spatter or other damaging contaminants.
- Promptly report to your supervisor or workshop in case anything unforeseen happens or a component is damaged.
- Regularly inspect beam, replace damaged or worn parts, and keep appropriate records of maintenance.

**Operator should**

- Never lift more than rated load.
- Never use damaged component or component that is not working correctly.
- Never use the beam with twisted, kinked, damaged, or worn chain.
- Never lift a load if any obstruction interferes with lifting.
- Never allow attention to be diverted from operating the device.
- Never use beam to lift, support, or transport people.
- **NEVER LIFT LOADS OVER PERSONS' HEADS!**
- Never leave a suspended load unattended.
- Never allow contact between device and other objects.
- Never allow the chain or link to be used as a welding surface.
- Never allow the chain or link to be touched by a live welding electrode.
- Never attempt to lengthen the load chain or repair damaged chain.

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