



IGLAND

User manual

Winch
85H



Read through the entire manual before using the product. It contains important safety information.



nøsted &

Thank you for choosing a winch from IGLAND!

This user manual is designed to provide you with comprehensive information on the use, installation, safety, and maintenance of the equipment.

It is important that you read this manual carefully before using the machine.

The safety of our users is our highest priority. This manual contains important information on how to use the machine safely and avoid potential hazards.

To ensure your safety, we want you to be aware of and consider that accidents, misuse, and equipment failure can lead to dangerous situations. It is important that you position yourself during work so that any accident does not result in personal injury.

The instructions provided in this manual must always be followed. Careless or incorrect use can result in serious injury or death. Modifications or other alterations to the original design of the product are made at your own risk and responsibility. It is important to note that any modification or alteration of the product will void the warranty.

If you have any questions or need assistance, please contact our service center at +47 479 20 192. Always state the type, serial number, and year of manufacture when making inquiries and ordering parts.

We are here to help you have a safe and enjoyable user experience.

Product	
IG300191	Igland 85H

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AI-translated from the original user manual

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1. OPTIONAL EQUIPMENT

FACTORY INSTALLED ONLY	
PRODUCT NO.	DESCRIPT
IG090656	7-pin connector
IG164000	Hydraulically adjustable retraction block
IG184008	Pullmatic (steel cable pull-out) incl. radio control

FOR RETROFITTING	
PRODUCT NO.	DESCRIPTION
IG091175	Radio control
IG022120	Test pressure gauge for checking oil pressure
IG164020	Tenth coupler
IG091442	Speed control (on/off)
IG184005	Top grille



2. SAFETY INSTRUCTIONS

2.1 General safety instructions

- **Read the user manual:** Before using the winch and any additional equipment, read and review the user manual carefully to understand proper use and maintenance.
- **Area of use:** Never use the winch for lifting or other tasks for which it is not designed. The winch is only to be used for pulling timber. The manufacturer is not liable for damage or destruction caused by misuse of the equipment.
- **Safety distance:** Always observe safety distances and ensure that you maintain a safe distance from moving parts during operation.
- **Operation:** Familiarize yourself thoroughly with the controls and functions of the winch. Ensure that only qualified and trained personnel operate the equipment.
- **Personal protective equipment:** Always wear the necessary personal protective equipment, including a helmet, safety glasses, gloves, and safety shoes during operation.
- **Risk of crushing:** Be aware of the risk of crushing from all moving parts.
- **Risk of overturning:** Always be aware of the risk of overturning. Keep the tractor in a stable position.
- **Emergency preparedness:** Keep first aid equipment, fire extinguishers, and emergency numbers readily available in case of an accident or emergency.
- **Modifications or other alterations** to the original design of the product are made at your own risk and responsibility. It is important to note that any modification or alteration of the product will void the warranty.
- **Inspect the winch and its components regularly** for signs of wear, damage, or loose parts and screws. Replace worn or damaged parts with components approved by the manufacturer. All damage must be repaired before the winch can be used again.
- **Only use steel cables with sufficient strength.** Low-quality steel cables can cause serious damage if they break. If there is visible damage to the steel cable, replace it immediately.
- **Lubricate the winch regularly** as recommended by the manufacturer.
- **Keep a record of maintenance and repairs** performed on the winch.

2.2 Safe use

- **Follow safety rules** to limit and prevent accidents.
- **Only use the winch** for its intended purpose.
- Never use steel cables that are not of sufficient strength. Never **stand below the timber** and **tractor when** winching on sloping **terrain**, or between the winch cable and the tractor when pulling.
- **Never stand** below the timber and tractor when winching on sloping terrain, or between the winch, timber, and tractor when pulling.
- **Keep a safe distance** from timber being pulled in. Stumps or other obstacles can cause the timber to tip up or sideways.
- **Drive with smooth and steady movements.** Avoid sudden jerks and jolts when using the winch.
- **Do not overload** the winch's rated capacity or the tractor's towing capacity.
- **Do not pull at an angle greater than 30 degrees sideways.** Sloping terrain increases the risk of tipping.
- **Keep away from the PTO shaft and other moving parts** that may cause a risk of crushing or entanglement.
- **Be especially careful when pulling heavy loads,** as this can shift or tip the tractor.
- **Ensure that all bystanders** are at a safe distance from the tractor and winch during use.
- **Never touch** steel cables, pulleys, or other components that are moving or under tension.
- **Avoid wearing scarves and other loose clothing** that could get caught in the PTO shaft and other equipment.
- **Be particularly careful** when working in extreme weather conditions, such as heavy rain, snow, or strong winds, as this can increase the risk of accidents.
- **Hang up snow chains** so that they do not get caught in wheel chains during transport.



2.3 Storage

- Store the winch in a dry and secure place.
- Prevent children from climbing or playing on or near the winch.
- Park the winch on a firm and level surface when it is stored or not in use.

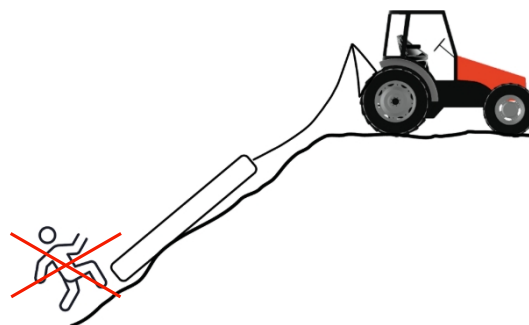
2.4 Checklist before use

- Always inspect the winch for wear and damage before use. Any damage must be repaired by qualified personnel before the equipment is used again.
- Ensure you have a full overview of the work area.
- Keep children away from the work area.
- Ensure that covers, guards, and components are in good condition.
- Check hydraulic hoses and couplings for kinks or leaks.
- Check that there is no damage to cables (optional equipment).
- Check hydraulic hoses and couplings.
- Lubricate the machine as specified.
- Check that the winch is in neutral position.
- Ensure that all moving parts are clean enough for use.
- Follow safety rules to limit and prevent accidents.

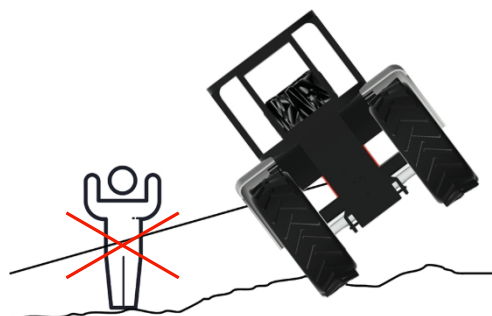


2.5 Safe Operation

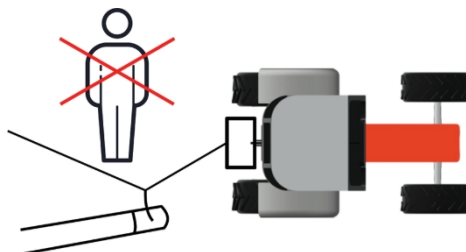
- Never use the winch for lifting or other tasks for which it is not designed. The winch should only be used for pulling timber.
- Avoid standing below the timber and tractor when winching on sloping terrain.
- Always use the brake when pulling uphill.
- Avoid sudden jerks and jolts when using the winch.
- Be careful when pulling heavy loads, as this can cause the tractor to shift or tip over.
- Do not pull at an angle greater than 30 degrees. Pulling at an angle increases the risk of tipping.
- Ensure that the tractor is in good condition and perform regular maintenance checks.
- Do not overload the winch's rated capacity or the tractor's towing capacity.
- Never stand between the winch, the load, and the tractor when pulling.
- Ensure that all bystanders are at a safe distance from the tractor and winch during use.
- Keep a safe distance from timber being pulled in. Stumps or other obstacles can cause the timber to tip up or sideways.
- Do not touch steel cables, pulleys, or other components that are moving or under tension.
- Keep away from the PTO shaft and other moving parts that pose a risk of crushing or entanglement.



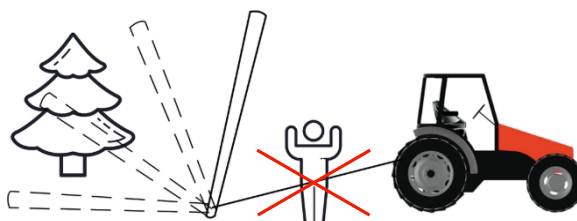
2.5.1 Do not walk behind a timber skid on steep slopes



2.5.2 Do not position yourself in such a way that you are at risk if the tractor or other equipment overturns

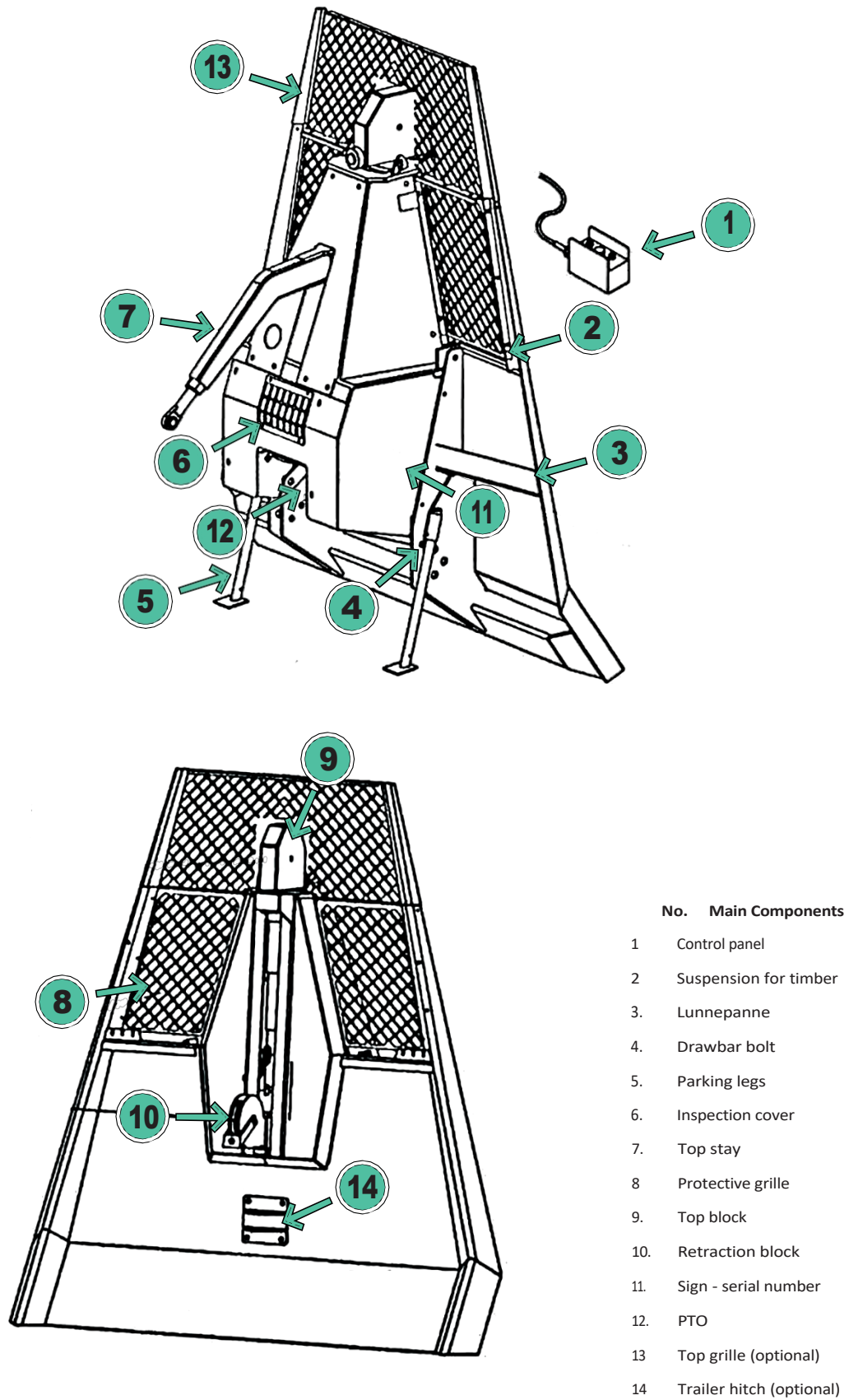


2.5.3 If the steel cable is at an angle, never position yourself on the inside of the angle.



2.5.4 Obstacles can cause the timber to tip up or sideways

3. MAIN COMPONENTS



4. TECHNICAL SPECIFICATIONS

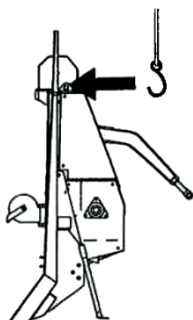
Igland 85H	
Rollers	1
Operation	Radio (electric-hydraulic)
Maximum traction (empty drum)	85 kN (8.5 tons)
Maximum pulling force (full drum)	43 kN
Brake	Brake band (automatic)
Braking force (empty drum)	106 kN
Braking force (full drum)	54 kN
Height/width/depth	230/206/80 cm
Weight (without steel cable/optional equipment)	880 kg
Theoretical steel cable capacity	140 m, 12 mm (compact)
Recommended steel cable	80 m, 12 mm (compact)
Recommended tractor size	66-103 kW (90-160 hp)
Connection to tractor	Three-point hitch (integrated top link)
Height of PTO pin	60 cm

5. ASSEMBLY

5.1 Preparation

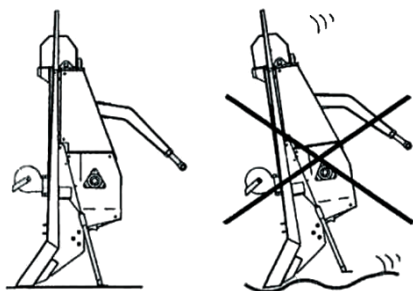
Always wear protective equipment.

Lifting is done using the lifting hook (see illustration).



5.1.1 Lifting points

Place the parking legs in the parking position and place the winch on a level and firm surface.

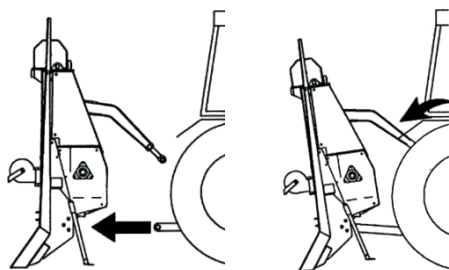


5.1.2 Parking

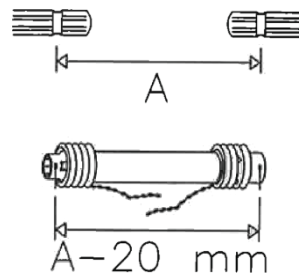
5.2 Mounting on tractor

Take care during mounting.

Install the drawbars and select category II or III bolts.



5.2.1 Drawbars and top links



5.2.2 Drawbars and top links

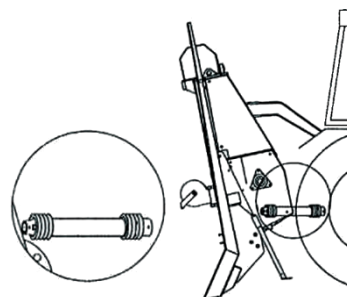
Connect the top link. Select the hole that gives the smallest possible angle between the winch and the top link.

Put the winch in the working position.

Adjust the top link so that the winch tilts 10-20 degrees backward. Make sure that the winch does not collide with the tractor cab.

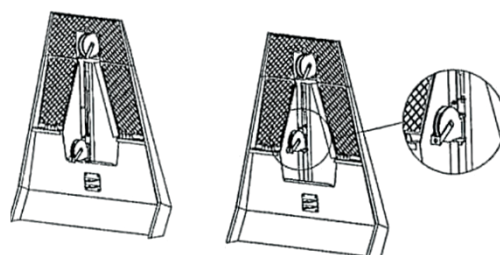
Cut the PTO shaft (power transmission shaft) to the appropriate length before installation. The correct length is 20 mm shorter than the distance between the pin on the winch and the tractor – measured horizontally. The power transmission shaft must be as horizontal as possible.

The shaft is cut according to the manufacturer's instructions.



5.2.3 Installation of PTO shaft

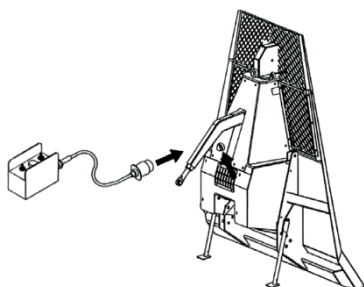
See illustration for alternative position of lower block.



5.2.4 Adjusting the lower retraction block

5.3 Mounting the electrohydraulic control

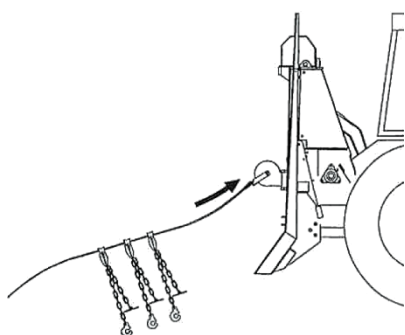
Connect the power supply and then the control panel.



5.3.1 Connecting the control panel

5.4 Mounting the steel cable

Set the winch to transport position. Unroll the steel cable and then thread the steel cable through the blocks. Attach the steel cable to the drum and then wind the steel cable tightly onto the drum.



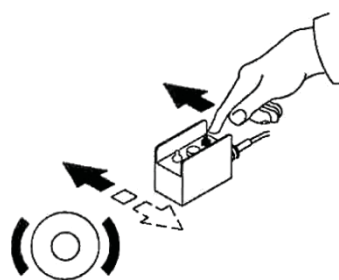
5.4.1 Winding the steel cable

6. USE AND OPERATION OF THE WINCH

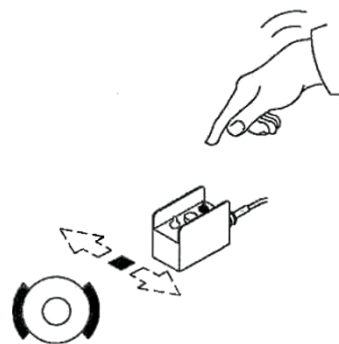
6.1 General

Always use protective equipment and be aware of the timber dimensions for which the winch is designed.

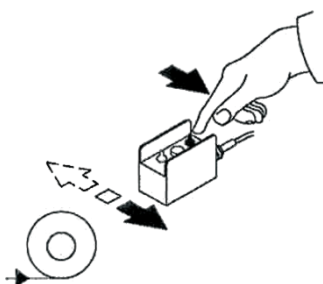
6.2 Operation and explanation of symbols



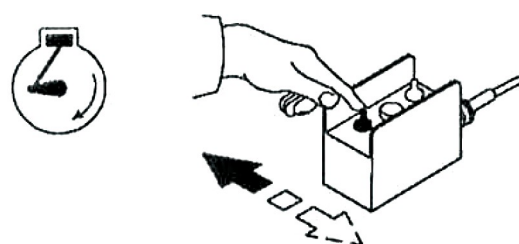
6.2.1 Free



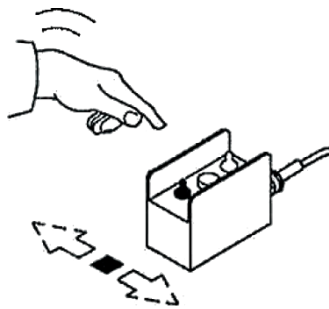
6.2.2 Brake



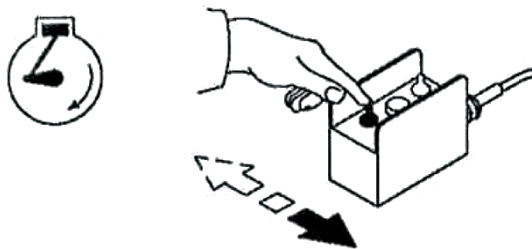
6.2.3 Pull in



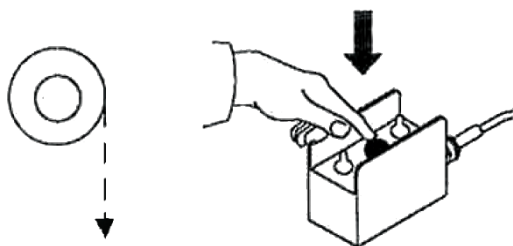
6.2.4 Full throttle (if fitted)



6.25 Idle (if fitted)



6.26 Full throttle (spring return) (if fitted)

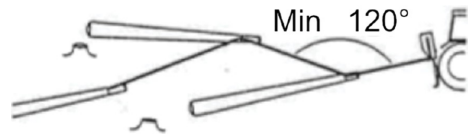


6.27 Brake release

6.3 Use

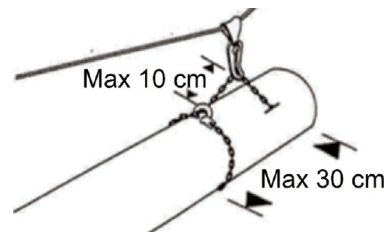
Back up as close to the log as possible, lower the grapple and park the tractor safely. The maximum angle for retraction is 30 degrees to each side.

Smaller logs can be secured in a herringbone pattern. Avoid sharp angles on the cable.



6.31 Minimum angle for herringbone pattern

Pull the steel cable out evenly. Avoid spinning on the drum. Release the brake if the steel cable is moving too slowly. Start strapping at the rear log. Secure the timber up to 30 cm from the end.



6.32 Recommended lashing

Maximum 10 cm chain between the hook and the slider. Avoid sudden movements, as the timber may react slowly. Hook chains are hung up after use.

See separate manual for more information about radio control.

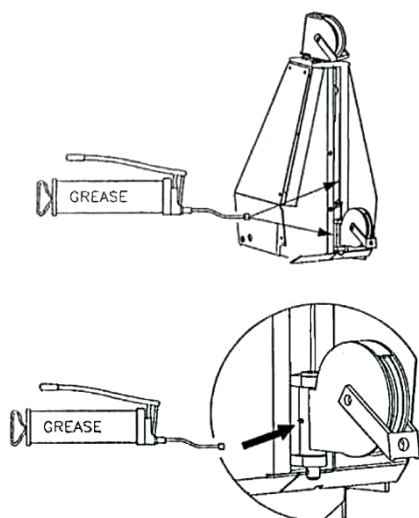
7. MAINTENANCE

Put the PTO in neutral and stop the engine before performing maintenance on the winch. The PTO shaft is maintained according to the manufacturer's instructions. Avoid oil spills on the clutch and getting oil/grease on the brake band.

7.1 Lubrication

Lubricate according to the table.

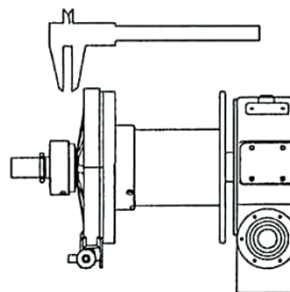
Interval	Component	Description
First 10 hours	Lubrication points	Lubricate with grease
	Screws and nuts	Retighten
	Chain drives	Check chain tension
Every 50 hours	Moving parts	Lubricate with oil
	Chain drives	Check chain tension
	Chain drives	Lubricate with chain spray or grease.
	Check the winch oil level	Refill if necessary
Annually	Worm gear	Change oil. 2.5 l SAE 80/90
	Oil tank, hydraulics	Change oil. 1.5 l Castrol AWH-32
	Oil filter, hydraulics	Replace
	Check clutch wear	Normal movement on pressure plate is 2.5-4 mm. Readjust if movement exceeds 4 mm. Replace clutch disc if thickness is less than 8 mm
	Check wear on brake band	Retighten if necessary



7.1.1 Lubrication points

7.2 Inspection of the clutch

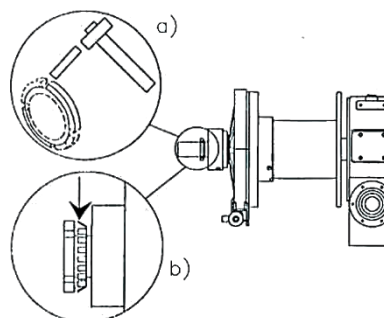
Check the movement on the pressure plate. Normal movement is 2.5-3.5 mm. If the movement exceeds 3.5 mm, the shim must be adjusted.



7.2.1 Measuring shim travel

7.3 Adjusting the clutch

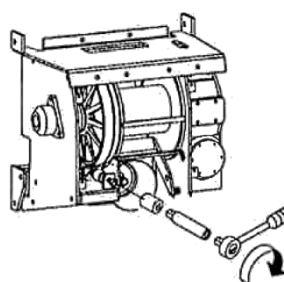
Pull out 3 m of steel cable. Lift off the inspection cover and open the locking clip. Adjust the clutch and close the locking clip. Start the engine and engage the PTO. Put the PTO in neutral and stop the engine. Check the movement on the pressure plate.



7.3.1 Adjusting the clutch

7.4 Adjusting the brake

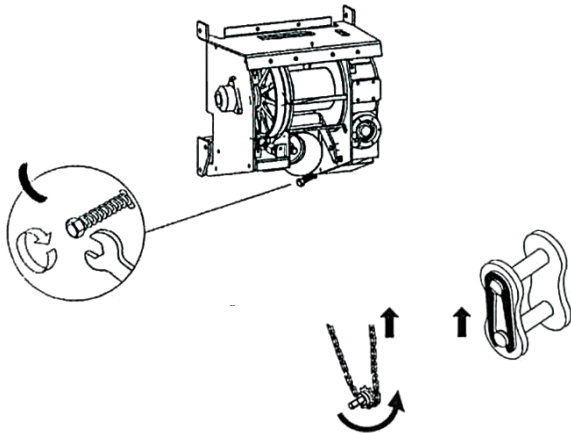
Adjust the brake spring if necessary.



7.4.1 Adjusting the brake

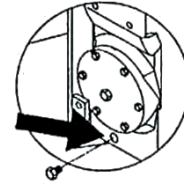
7.5 Adjusting the chain

Check the chain for slack and remove any slack by tightening or shortening the chain. The chain lock is attached with the closed side in the direction of travel. Tighten the chain after first use.



7.5.1 Chain tensioner

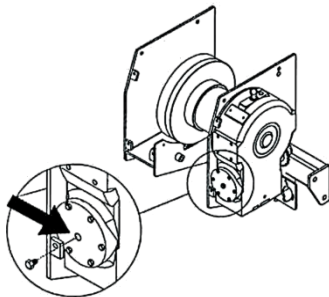
Unscrew the drain plug at the bottom when changing the oil.



7.6.3 Bottom plug

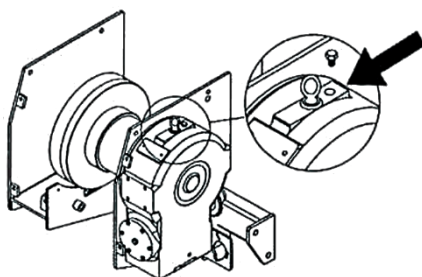
7.6 Gear oil

Check the oil level in the gearbox.



7.6.1 Level plug

Refill as needed.



7.6.2 Refill plug

NOTES



IGLAND Workshop and Service Center

Our Workshop and Service Center in Mandal provides technical support for all our products.

We service and repair older and well-used winches. This extends the life of the products and is good for the environment.

Do you need:

Technical support for timber trailers

Accessories or additional equipment

An appointment for service or repair of a

winch Call our service office on +47 372 56 200

Email: service.igland@nosted.com

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Doneheia 17, 4516 Mandal