IGLAND

User manual

Winch

2501 / 3501 / 4501

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

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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.

For a valid warranty, please note that the acceptance form supplied with the product must be returned within 14 days.

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	
IG308010	**Igland 2501**
IG300740	**Igland 3501**
IG300052	**Igland 4501**

Revised	23.08.2024
Published	08/23/2024
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AI-translated from the original user manual

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1. EXTRA EQUIPMENT

PRODUCT NO.	DESCRIPTION
IG022150	Oil can holder
IG022151	Saw holder
IG090378	Oil distribution valve for tractors with oil capacity over 55 L/min
IG091442	Speed control for tractor, on/off (only available with radio control)
IG095229	Radio control, 1 function, incl. hydraulics (LH) (4501)
IG095440	Radio control, 1 function, incl. hydraulics (LH) (3501)

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 with the controls and functions of the winch. Ensure that only qualified and trained personnel use 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.
- **Always use the parking brake** when pulling uphill.
- **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 cause the tractor to shift or tip over.
- **Ensure that all spectators** 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 especially 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

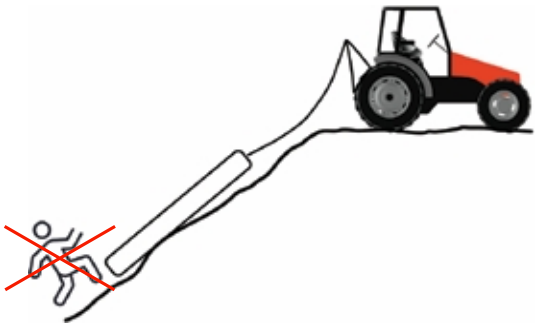
- Store the winch in a dry and secure place.
- Prevent children from climbing or playing on or near the winch.
- Park the winch on a firm, level surface when it is stored or not in use.

2.4 Checklist before use

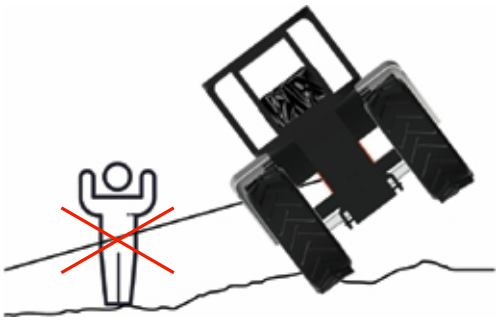
- Always inspect the winch for wear and damage before use. Any damage must be repaired by qualified personnel before the equipment is used again.
- Ensure that you have a full overview of the work area.
- Keep children away from the work area.
- Ensure that covers, guards, and components are in good condition and correctly installed.
- Check hydraulic hoses and couplings for kinks or leaks (optional equipment).
- Check that there is no damage to cables (optional equipment).
- Inspect hydraulic hoses and couplings (optional) for leaks and ensure that they are secure.
- Lubricate the machine as specified by the manufacturer.
- Check that the winch does not retract when the operating cable is not tightened.
- Check that the radio control is functioning correctly. Too much oil, thick oil, or restrictions in the return line can cause the steel cable (optional) to retract unintentionally.
- Ensure that all moving parts are clean enough for use and are not obstructed by branches or wood chips.
- Follow safety rules to limit and prevent accidents.

2.5 Safe Operation

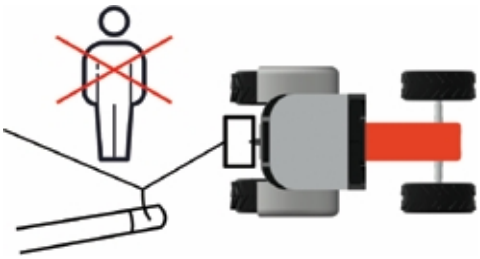
- Never use the winch for lifting or other tasks for which it is not designed. The winch should only be used for pulling timber.
- Avoid standing below the timber and tractor when winching on sloping terrain.
- Always use the pawl brake when pulling uphill.
- Avoid sudden jerks and jolts when using the 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 exceed the winch's rated capacity or the tractor's towing capacity.
- Never stand between the winch cable and the tractor when pulling.
- Ensure that all spectators are at a safe distance from the tractor and winch during operation.
- 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.



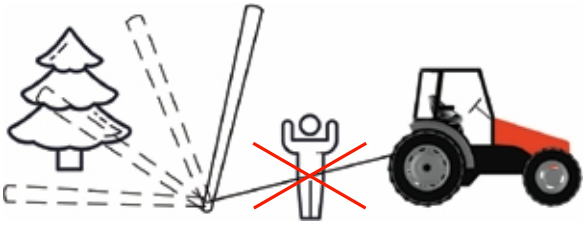
2.5.1 *Do not walk behind a log tow on steep slopes.*



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

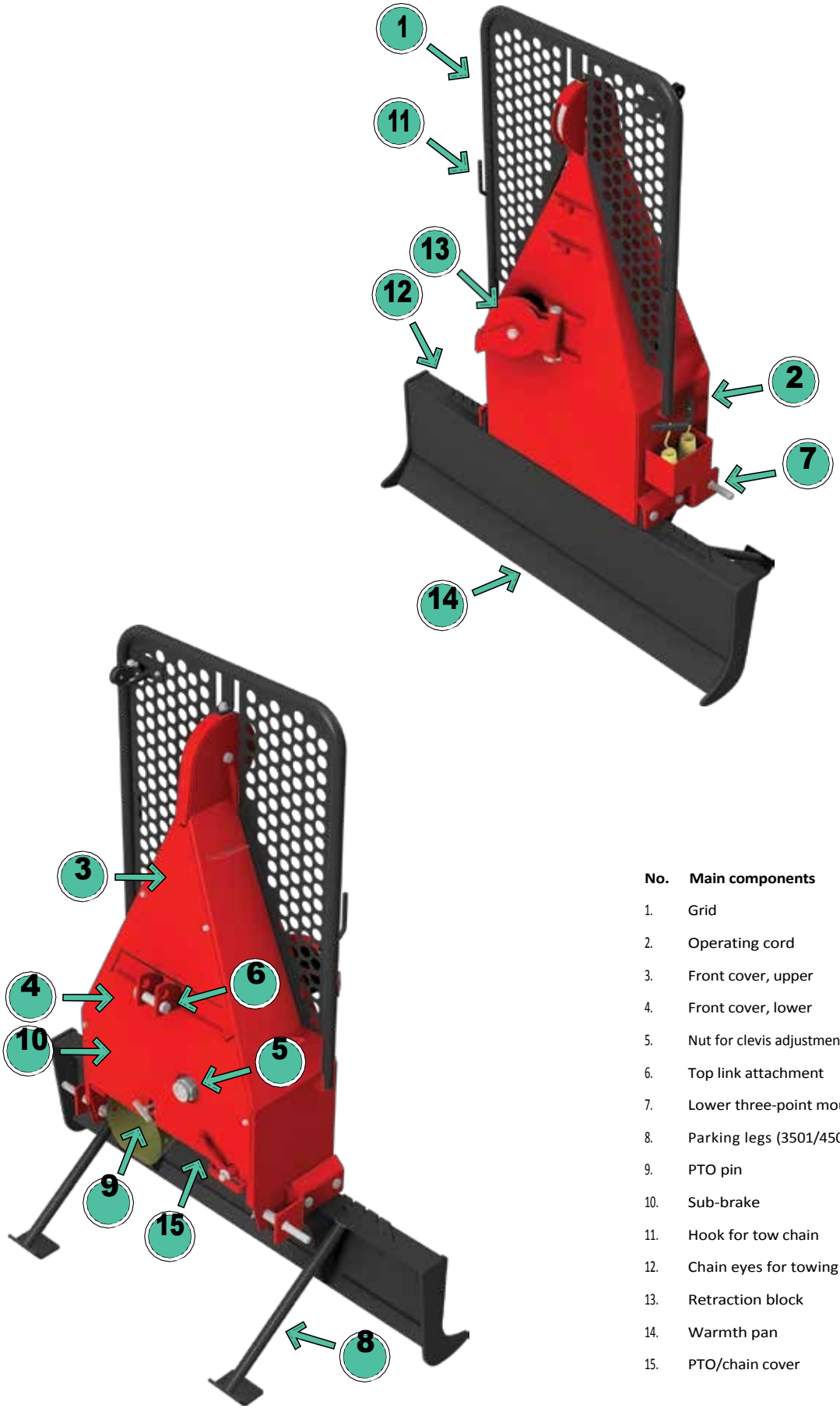


2.5.3 *If the steel cable is at an angle, never position yourself on the inside of the angle.*



2.5.4 *Obstacles can cause the timber to tip up or sideways*

3. MAIN COMPONENTS



No.	Main components
1.	Grid
2.	Operating cord
3.	Front cover, upper
4.	Front cover, lower
5.	Nut for clevis adjustment
6.	Top link attachment
7.	Lower three-point mounts
8.	Parking legs (3501/4501)
9.	PTO pin
10.	Sub-brake
11.	Hook for tow chain
12.	Chain eyes for towing timber
13.	Retraction block
14.	Warmth pan
15.	PTO/chain cover

4. TECHNICAL SPECIFICATIONS

Igland 2501 winch	
Height/width/depth	129 / 92 / 47 cm
Weight (without steel cable)	127
Height of PTO pin	30
Recommended tractor size	11–25 kW (15–35 hp)
Maximum pulling force (empty drum)	25 kN (2.5 tons)
Maximum pulling force (full drum)	11 kN (1.1 tons)
Theoretical steel cable capacity	62 m, 8 mm
Recommended steel cable	40 m, 8 mm
Recommended maximum load	1 m
Recommended maximum retraction load	0.5 m
Retraction speed at 540 rpm	0.66–1.56 m/s

Igland 3501 winch	
Height/width/depth	160 / 122 / 37 cm
Weight (without steel cable)	200 kg
Height of PTO pin	35
Recommended tractor size	26–52 kW (35–70 hp)
Maximum pulling force (empty drum)	35 kN (3.5 tons)
Maximum pulling force (full drum)	11 kN (1.1 tons)
Theoretical steel cable capacity	71 m, 9 mm
Recommended steel cable	50 m, 9 mm
Recommended maximum load	2.5 m
Recommended maximum retraction load	1 m
Retraction speed at 540 rpm	0.61–1.67 m/s

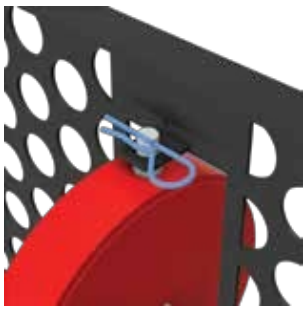
Igland 4501 winch	
Height/width/depth	190 / 150 / 61 cm
Weight (without steel cable)	260 kg
Height of PTO pin	50
Recommended tractor size	26–52 kW (35–70 hp)
Maximum pulling force (empty drum)	45 kN (4.5 tons)
Maximum pulling force (full drum)	17.5 kN (1.75 tons)
Theoretical steel cable capacity	73 m, 10 mm
Recommended steel cable	50 m, 10 mm
Recommended maximum load	3.5 m
Recommended maximum retraction load	1.5 m
Retraction speed at 540 rpm	0.67–1.66 m/s

Common specifications	
Drums	1
Gear ratio	1:4.72
Clutch	Replaceable blocks
Brake	Pal brake
Connection to tractor	3-point

5. INSTALLATION

5.1 Installation of 2501

Remove the locking pin at the top of the grid. Lift the grid, tilt it down and secure it with one locking pin on each side. Tilt and lower the winch until the windlass and grid touch the ground. Make sure that the winch is standing on a level and firm surface.



5.1.1 Parking the 2501

5.2 Assembly 3501 and 4501

Attach the parking leg and secure it with the locking pin. Make sure the winch is on a level and firm surface.

5.2.1 Parking legs on 3501 and 4501

5.3 Mounting to tractor

Select suitable bolts for the coupling.

	2501	3501	4501
Lower mountings	Cat 1	Cat 1/2	Cat 1/2
Top stays	Cat 1	Cat 2	Cat 2

5.3.1 Bolts for 3-point

Attach the tractor's drawbars to the lower attachments. Attach the top link to the top link attachment.

Adjust the length of the top link to tilt the winch 10-20 degrees backward into the working position. Make sure that the winch does not collide with the tractor cab when it is lifted!

The highest top link attachment gives the winch better support against the ground when retracting.

For the 2501 model, fold up the grille.

For the 3501 and 4501 models, remove the parking leg. Attach the short tube to the holder.

Make sure that all connections are secure and properly fastened.

5.4 Cutting the PTO to the correct length

Measure the distance between the winch shaft and the tractor shaft horizontally, then subtract 20 mm to find the correct length of the power take-off shaft and guard.

Follow the manufacturer's instructions to cut the power transmission shaft and guard to the correct length.

5.5 Attaching the rope for the pawl brake

Thread the rope through the metal plate and down to the lever. Tie the end to the lever.

5.5.1 Attaching the rope to the pawl brake

5.6 Attaching the rope for the clamp

Thread the rope through the pulley at the top of the grid and through the hole in the side of the winch.

Remove the front cover of the winch.

5.6.1 Pulling the rope to the cleat

Inside the winch, thread the rope through the lower pulley and the lever pulley, and tie it to the hole in the metal plate.

5.6.2 Attaching the rope to the cleat

5.7 Attaching the steel rope

Thread the steel rope through the pull-in block and over the pulley at the top of the winch.

2501: Thread the steel cable through the hole in the drum and secure it with a loose clamp.

3501/4501: Thread the steel cable through the hole in the drum and secure it in the welded clamp with the Allen screw.

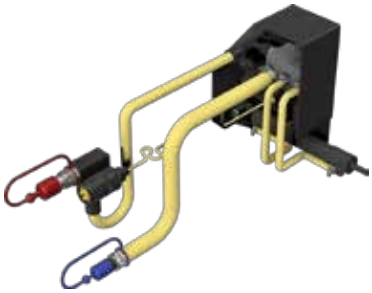
5.7.1 Attaching the steel cable

Keep the steel cable taut while winding it on.

5.8 Hydraulic connection

(optional extra for 3501/4501)

Connect the pressure hose (ISO connector/red cap) to one of the tractor's outlets. Connect the return hose (open connector/blue cap) to the oil tank or a return line on the tractor.
For installation of hydraulics on the winch, see separate installation instructions.



5.8.1 Hydraulic hoses

The return line must be free of resistance!

5.9 Radio connection

(optional extra for 3501/4501)

Connect the 7-pin connector to the tractor and the 3-pin connector to the solenoid valve.

5.9.1 Solenoid valve for connecting radio

See separate manual for more information about radio operation.

6. USE AND OPERATION OF THE WINCH

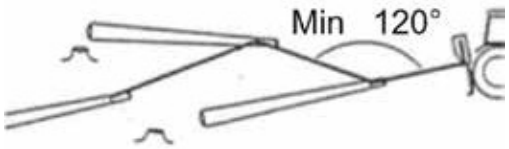
Read the safety instructions before use!

Back the tractor as close to the timber as possible.

Do not pull in from the sides more than 30 degrees on each side of the tractor.

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

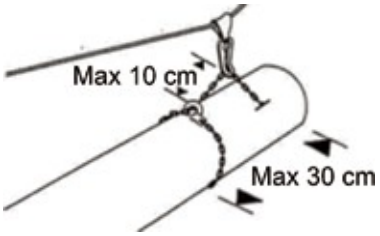
Avoid sudden movements, as the timber may react slowly.



6.1 Avoid sharp angles on the cable

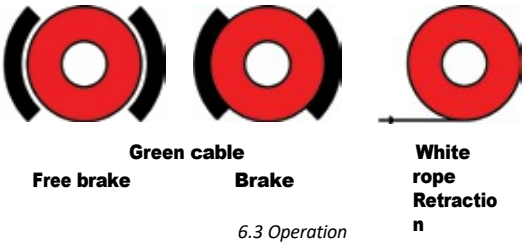
Pull out the steel cable slowly.

Attach the poles up to 30 cm from the edges.



6.2 Recommended strapping of timber

Maximum 10 cm chain between the slider and the hook.



6.3 Operation

Be aware of the winch's limitations.

Tighten the brake if the drum spins. Loosen if the steel cable is too heavy to pull out. Lower the load slowly to prevent kinks in the steel cable.

Lower the hay fork until it rests on the ground and use the brake cables to park the tractor.

See the radio manual for further instructions.

Hinged winch pan

The winch pan can be hinged to make it easier to drive over obstacles. Remove the locking pin and bolt on both sides. The winch pan will then hang on the winch with a bolt on each side.

6.4 Bolt for loosening the bumper

7. MAINTENANCE

Disengage the power take-off and stop the engine before performing maintenance. Check the PTO manufacturer's instructions for maintenance.

7.1 Lubrication

Do not spill oil on the clutch!

	Timer	Lubrication
Chain	20	Thick oil
Needle bearing	20	Thick oil

7.1.1 Lubrication table

To access the chain and needle bearing, remove the front cover. The needle bearing is located behind the drum and chain wheel.

7.1.2 *Needle bearing*

7.2 Inspection of the clutch

Pull out 10 m of the steel cable and check the slack in the control lever until the winch starts to pull in. Normal slack for the lever is a maximum of 10 cm, measured at the cable. Adjust the clevis if there is more slack than this.

7.2.1 Measuring backlash

7.3 Adjusting the clutch

Adjust the clutch by turning the large nut. Confirm correct adjustment by performing a new clutch inspection.

7.3.1 Nut for adjusting the clutch

7.4 Chain

Check the tension in the drive chain. The chain tensioner can be accessed by removing the PTO cover. Move the spring to adjust the tension. If the chain is too long, remove one link and add half a link if necessary. Fit the chain lock with the closed end in the direction of travel.

7.5 Checking the clutch blocks

Remove the front cover. The friction pads are located between the drum and the chain wheel. Measure the thickness of the

pads. If the coating is less than 2 mm, replace the pads.

7.5.1 Friction blocks

7.6 Replacing the friction blocks

Bend away the lamella holders and remove the old blocks. Insert new ones and bend the lamella holders back.
Loosen the nut to loosen the clutch. Remove the old blocks and insert new ones. Inspect and adjust the clutch according to the maintenance instructions.

7.7 Adjusting the pressure

(optional extra for 3501/4501)

The pressure is adjusted by loosening the nut and turning the pressure regulator. The pressure should be 40 bar.

7.7.1 Pressure regulator

NOTES

NOTES

IGLAND

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 your winch Call our service office on +47 372 56 200
Email: service.igland@nosted.com

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