

USER MANUAL

HYDRAULIC WINCHES HN15000IY1D Capacity: 6800 kg







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Dear customer,

Thank you for choosing this high-quality winch, which has been designed and manufactured to strict specifications.

This manual has been carefully produced to provide you with all the necessary information for optimal installation and use of your equipment.

We recommend that you read it carefully before use and keep it close to hand for future reference. We also reserve the right to make changes, without notice, as part of our continuous improvement of this product.

Please, do not hesitate to contact your RUNVA distributor if you wish to obtain more information:



4, rue Michel Hammid

60420 FERRIERES (France)

⊠ : contact@huchez.fr

🖀 : 03 44 51 11 33

▲ WARNING

Please read, study and follow all instructions before using this equipment. Failure to follow these instructions could result in serious injury and/or damaged equipment.

02 GENERAL SAFETY INFORMATION

All users should read the usage instructions carefully before first use. These instructions should enable the user to familiarise themselves with the winch and achieve the best performance possible. The usage instructions contain important information about how to use the winch correctly and safely. By acting in accordance with these instructions, you will avoid hazards, reduce repair costs, reduce downtime and increase reliability and extend the life of the winch. The instruction manual should always be available at the winch's point of use. In addition to the usage instructions and the relevant regulations for the prevention of accidents, it is also important to consider the applicable health and safety regulations in force in each country.

The winch can produce significant pulling forces. If it is used in an unsafe or inappropriate way, it could result in damaged equipment, serious injury or death. Throughout this manual, you will find the following symbols, indicating cautions, warnings and hazards. Pay particular attention to the notes accompanying these symbols because they are written for your own safety. As the operator, you are responsible for using this device safely.

This indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. This symbol is also used to warn you against unsafe practices.
This indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

These winches allow loads to be moved using an appropriate steel or synthetic cable. They have been designed to pull up to a determined rated load and with a static system safety factor of 3.

- The rated load indicated on the winch corresponds to the maximum operating load; this must not be exceeded under any circumstances.
- UNDER NO CIRCUMSTANCES MAY THIS WINCH BE USED FOR HOISTING OR TO LIFE OR MOVE PEOPLE.
- Do not start pulling the load until it has been correctly secured and all personnel have left the danger area.
- Before each use, the operator must verify that the winch, its cable, its hook, its markings and its mounting are all in good condition.
- The operator must ensure that the load is attached in such a way that the winch, cable and load do not pose a danger to themselves or others.

The use of winches requires strict compliance with the relevant health and safety practices in the country in which the winch is used.

 HUCHEZ does not accept any responsibility for consequences resulting from the use or installation of devices not covered in this manual, nor does HUCHEZ accept any responsibility for the consequences of disassembly, modification or replacement of original parts or components with third-party parts or components without HUCHEZ's written consent.

This device is subject to European regulations and in particular to Machinery Directive 2006/42/EC and European Standard EN 14492/1.

ANY APPLICABLE REQUIREMENTS AND REGULATIONS IN YOUR COUNTRY MUST ALSO BE COMPLIED WITH.

03 warranty

These hydraulic winches are covered by a 1-year warranty, starting from the date of shipment (from the factory).

This warranty does not cover any wear or damage resulting from a lack of regular maintenance. It also does not cover damage due to a lack of supervision, incorrect operation or improper use of the device, in particular as a result of overloading, pulling diagonally, incorrect supply voltages or faulty connections.

The warranty shall not apply in cases of disassembly, modification or the changing of mechanical or electrical parts without our agreement or by an unauthorised party. The warranty shall only apply to original manufacturer parts. For the duration of the warranty, the seller is obliged to replace or repair any parts recognised as faulty following examination by their approved and qualified service.

This warranty excludes any other provision or compensation.

All repairs under warranty shall be undertaken by the seller or by an agent authorised by the manufacturer. Any parts replaced shall become the property of the seller and must be returned to them.

For particular parts which are not manufactured by the seller and which bear the brand name of specialist manufacturers, the warranty (which may vary depending on the manufacturer), shall be the same as that granted by that manufacturer.



- Carry out a visual inspection of the packaging to verify that it is in good condition.
- In the case of a fault or problem, write down your concerns on the delivery slip.
- Check that the winch corresponds to the one you ordered.



- When using this device, basic precautions should always be taken to minimise the risk of injury to the user or damage to the equipment. Please read all instructions before using this device!
- Check that the winch is in good condition before use. Check that no components are damaged: if any components appear to be damaged, they should be checked to ensure that they still work correctly and can fulfil their intended function. Any damaged components should be correctly repaired or replaced by a qualified technician.
- Before using the winch, test it in both directions (1-2 seconds in each direction). Even if the winch drum is at an angle of only a few degrees, ensure that the winch is well balanced, particularly after using the clutch; a gear may be engaged following the winch test.
- Wear suitable clothing. Do not wear loose clothing or jewellery as they could get caught in between

moving parts. It is recommended that non-conductive protective clothing and non-slip shoes be worn when using the winch. Long hair should be tied back.

- Protect the eyes and ears. Always wear anti-shock safety goggles.
- Do not exceed the rated load capacity indicated in this manual.
- Ensure the vehicle is parked in a fixed position before using the winch.
- Ensure that the winch is correctly bolted to a structure (or a vehicle) that is able to support the weight of the winch.
- Do not use inappropriate accessories to extend the winch cable.
- Intermittent use only. Allow the winch to cool between each use.
- Do not use the winch to lift a load (vertically).
- NEVER use the winch to lift or move people in any way.
- NEVER cut, weld or modify any part of the winch or the cable.
- A minimum of five turns of steel cable around the drum are required to pull and hold the rated load.
- When the winch is in use, please ensure that all people present (including yourself) are a safe distance away from the cable.
- Place chocks under the vehicle if parked on a slope.
- This winch is not fitted with a locking mechanism. Secure the load after moving it.
- The cable may break before the motor stalls. For heavy loads (at or near rated load capacity), use a pulley block to reduce the load on the cable.
- Never step on a cable and never approach a loaded cable.
- Do not move the towing vehicle in order to pull the load with the winch cable. This could cause the cable to break.
- Please ensure that the remote control and battery cables are disconnected when not in use.
- Please avoid jolting the cable by using the controls intermittently to remove slack in the cable. Jolts can far exceed the load capacity of the cable and the drum.
- Do not exceed the maximum rated pulling capacity indicated in this manual.
- The winch cable should be rolled back onto the drum under a load of at least 10% of the nominal traction.
- When winding the cable, please ensure that it is wound in the correct direction and that it winds around the drum from the bottom and not from the top. To ensure that the cable is wound correctly, you should apply light tension to the cable while pressing the button on the remote control to pull the cable. Move towards the winch to avoid the cable slipping between your hands. Do not move your hands within 30 cm of the winch when winding. Turn off the winch and repeat this process until there are only a few cm of cable left. Disconnect the remote control and finish winding the cable by disengaging the clutch and turning the drum by hand. Keep your hands away from the roller fairlead and the drum when the winch is powered.
- Never use the winch if the cable shows signs of wear or is gnarled or knotted.
- Do not use as a hoist. Do not use for vertical lifting.
- Failure to pay attention to these warnings may result in personal injury and/or damaged property.
- Use gloves to protect your hands when handling the cable. Never allow the cable to slip between your hands.
- Never attach the cable to itself. When the vehicle is on a slope, apply chocks to the wheels. When pulling a load, the winch should be run for the shortest time possible. If the motor becomes too hot to touch, stop winching immediately and allow the motor to cool for a few minutes. Do not run the winch for more than a minute if you are at or near the rated load.
- Always keep unused equipment stored away. When not in use, equipment should be stored in a dry place to prevent rust.



- Turn off using the start/stop switch. Disconnect the power supply when the device is not in use.
- Replacement parts and accessories. Only use identical replacement parts when servicing this device. The use of any other parts will void the warranty.



- If the motor stalls, do not continue to apply power to the winch. Hydraulic winches are designed and manufactured for intermittent use. They should not be used for continuous usage applications.
- Never disengage the clutch while the winch is loaded.
- Use the safety strap when handling the hook to wind or unwind the cable.



6.1. General information

This winch is a powerful machine which must be handled with extreme caution with attention paid to all cautions and warnings indicated in this manual. It is important that you understand its specifications and the basics of how it works so that you can use it safely and with complete confidence whenever you need to.

The winch takes pressure from the vehicle's power steering pump or from another source of hydraulic power.

Below, you will find a list of the winch's components and their functions. We recommend that you practice using the winch before finding yourself in a situation where you need to use it.

- 1. This **winch** is designed for maximum pull strength with a single layer of cable wound around the winch drum (the first layer).
- 2. The hydraulic motor feeds the gear mechanism that makes the drum turn and wind the cable.
- 3. The winch **drum** is the cylinder around which the cable is wound. It can unwind or rewind the cable, depending on which button is pressed on the remote control.
- 4. The winch may be equipped with a **cable** (galvanised steel aircraft cable of Ø 12 mm), which is specifically designed for a rated pulling load of 6804 kg. The cable is wound around the drum from the bottom through the roller fairlead and has a loop at the end to allow the hook to be attached.
- 5. When the winch is used at an angle, the **roller fairlead** guides the cable onto the drum. This minimises damage to the cable caused by abrasion on the winch support or the vehicle bumper.
- 6. The **gearbox** converts the power of the motor into an extreme pulling force.
- 7. A braking action is automatically applied to the drum when the motor is stopped and the cable is loaded. The braking action is complemented by a **separate mechanical brake**.
- 8. **The clutch** allows the operator to manually disengage ("DISENGAGE") the drum from the gearbox. "ENGAGE" locks the drum to the gearbox.
- 9. Solenoid valve
- 10. Switch
- 11. Plug socket
- 12. Hose fittings

- 13. The winch can also be supplied with a **pulley block** (optional, contact us) to double the winch's pulling power or change the pulling direction without damaging the cable. We recommend that you use a double line and a pulley block when pulling more than 70% of the rated pulling load.
 - 6.2. Technical specifications

Ref.	HN15000IY1D
Rated force	6 804 kg
Motor displacement	80 ml/rotation
Oil flow	$5{\sim}60$ L/min
Pressure	13 Mpa
Gear ratio	33.4 :1
Cable (Dia. × L)	Ø 12 mm × 26,5 m
Drum size (Dia. × L)	Ø 89 mm × 217 mm
Mounting dimensions / Mounting bolts	254 mm × 114,3 mm 4-M12
Net weight (kg)	60

General dimensions (L×I×H)

589mm ×255mm ×287mm

HN15000IY1D			
1st layer pulling load (kg)	Pressure (Psi)	Flow (L/min)	Speed (m/min)
0	290.1	5	0.5
2268	623.7	10	1.0
4536	1261.8	20	2.0
5443	1450.3	30	3.0
6804	1885.4	60	6.0

Ref.	HN15000Y1D		
Layer	Rated force (kg)	Cable drum capacity (m)	
1	6804	5.5	
2	5498	12.4	
3	4612	20.1	
4	3972	26.5	

6.3. Dimensions



HN15000IY1D



Accessories you will need which are not included with the winch:

- Gloves for handling the cable and hook safety strap.
- Anchoring sling/chain.
- Blanket to throw over the cable to absorb the energy if the cable breaks.



7.1. Diagram of the hydraulic principle of the equipment and installation diagram (Y1D)

7.2. Mounting the winch

1. The winch is designed with a standard bolt pattern for this class of winch. Many winch mounting kits use this bolt pattern for common vehicles and mounting plates. If you cannot find it, please do not hesitate to contact us. Correct alignment of the winch will ensure uniform distribution of a rated load.



- 2. Begin by assembling the roller fairlead using 2 screws M12 X 20 and a lock washer. With a mounting plate, begin by assembling the roller fairlead and the mounting plate using 2 screws M12 X 35, a washer, a lock washer and a nut. Ensure that the screws are inserted through the mounting plate from the inside and through the roller fairlead. This will ensure that there is enough space for the winch to be placed on the plate.
- 3. Assemble the winch on the mounting plate by pulling and turning the clutch switch to the "DISENGAGE" position. Pull a few centimetres of cable from the drum and pass the cable loop through the opening at the front of the mounting plate and through the roller fairlead. You may now attach the winch to the mounting plate using the remaining screws M12 x 35 and the lock washer.

7.3. Mounting the directional solenoid valve

The solenoid valve should be mounted away from any source of excessive heat, such as an exhaust manifold or a turbo. Ensure that no selected hoses or cabling are subject to any tension. It can be mounted using the support and hex bolts provided. Using the support as a guide, mark the position of the assembly holes, remove the plate and drill four 1/4" holes. Mount the solenoid valve using the nuts and bolts.

Note: On certain vehicles, you may need to remove the radiator grill in order to install the hoses and cabling.

7.4. Electrical connections

If the winch power supply is taken from the vehicle's power steering pump, the solenoid valve should be installed by default on the power steering housing so that the power steering can still function even when the winch is in use.

The solenoid valve will not be energised until the three or four pin plug is connected.

Each solenoid valve is fitted with two wires that can be connected to either the power supply or to ground. The ground connections are connected to each other in the factory. Connect all the wires to the battery as shown in the illustration.

Next, test the manual control system. You will hear a quiet "click" from the solenoid valves if they are connected correctly.

7.5. Hose connections

Keep all hoses away from any source of excessive heat such as an exhaust manifold or a turbo.

Hoses should not be allowed to rub against abrasive or vibrating surfaces.

In certain cases, the 90° connections fitted to the directional solenoid valve and the motor or on the balance valve will be necessary to make the hose assembly more versatile.

Once the hoses have been fitted on the vehicle, apply the provided o-ring connectors to the solenoid valve. Tighten to the required torque. Do not over-tighten the connectors.

Fit the o-ring connectors to the winch motor. Tighten to the required torque. Connect either end of hose A of the motor to end A of the directional solenoid valve, end B of the motor to end B of the solenoid valve, end P of the directional solenoid valve to the high pressure end of the pump, end T of the solenoid valve to the reservoir, and, if necessary, connect either end of hose S to the valve on the steering housing. Fit any o-ring or gasket from the vehicle's original hose to the hose fitting.



🔥 WARNINGS

The hydraulic control valves are essential components for optimal performance of the system. They regulate the flow and pressure of the hydraulic oil in the hoses by maintaining consistent speed and pressure.

The flow control valves regulate the flow of oil from the pump to the cylinders and motors. Their main function is to regulate the flow and direct oil towards a specific part of the hydraulic circuit. At the same time, they also control the rate of energy transfer at all levels of pressure.

A selector valve is used to control the direction of movement of a hydraulic cylinder or similar device. It allows the simultaneous flow of hydraulic fluid in and out of the unit. It allows the simultaneous flow of hydraulic fluid in and out of the unit. It allows the simultaneous flow of hydraulic fluid in and out of the unit. The pressure in the hydraulic system can be routed using the selector valve so that the unit can operate in two directions, and a corresponding return path is provided so that the fluid can return to the reservoir. There are two main types of selection valve: open-centre and closed-centre. An open-centre valve allows a continuous flow of hydraulic fluid through the valve even when the selector is not in a position to actuate a unit. A closed-centre selector valve blocks the flow of fluid through the valve when it is in the neutral or closed position.

Choice of selector valve as follows:

(Type H and Type Y are available. Type O and Type M are not available.)

The selector valve has three possible positions. This means that the selector on the directional solenoid valve has three working positions with the two end positions corresponding to movement by the solenoid spool.

- 1. Coil "A" is energised and coil "B" is turned off: the spool moves in the direction of coil "A".
- 2. Coil "B" is energised and coil "A" is turned off: the spool moves in the direction of coil "B".
- 3. Coils "A" and "B" are both turned off at the same time, the spool returns to the middle position, forming a closed loop, which means that the two chambers of the cylinder are completely closed and there can be no movement.

The four-channel valve: P, T, A and B.

"P" is the pressure port. "T" is the return port. "A" and "B" are the working ports.

While the electromagnet is not energised, the switching valve is in the middle position. For type "H" valves, ports P, T, A and B are connected to each other in the middle. For type "Y" valves, ports T, A and B are connected to each other and P is disconnected from the other ports. For type "O" valves, all ports P, T, A and B are each disconnected. For type "M" valves, ports P and T are connected in the middle. Ports A and B are each disconnected from the other ports.

Type "H": all the ports are connected, the system is discharged and the spool floats. The hydraulic actuator is connected to the oil reservoir in two chambers, from static stop to impact start. When braking, the oil port is interconnected and braking is more stable than type "O"; but the switch-over position changes considerably.

Type "Y": the oil pump does not discharge and the hydraulic actuator is connected to the oil reservoir in two chambers. There is an impact transition from rest to startup and braking performance is between type "O" and type "H".

Type "O": all the ports are closed and the system does not discharge. The hydraulic cylinder fills with oil, smooth transition from rest to start. When braking, there is inertia of movement caused by the hydraulic impact. Highly accurate switch-over position.

Type "M": discharge of the oil pump, smooth transition from rest to startup. Braking performance is the same as type "O".



1. Permanently engaged. If disengaged, the pressure in the winch must be between 87 and 130 psi.

2. The pressure must not fall below 87 psi.

3. Do not disengage when the winch is loaded and in operation.

The hydraulic circuit must be fitted with a pressure relief valve to ensure the safety of the system. The system will pose significant potential risks if there is no pressure relief valve present and should not be used. There should also be a pressure relief valve present if your winch is actuated by an existing hydraulic system.

The wires connected to the battery should not be too tight and there should be some slack.

If your system is delivered with a cooling system fitted, please refer to the illustration.

Check the fluid level. Replace the fluid lost in the system. The system will have to be drained. Start the motor. Wind 5 feet of cable. Turn off the motor. Check the fluid level. Add fluid until full. Start the motor. Unwind 5 feet of cable. Turn off the motor. Check the fluid level. Add fluid until full, if necessary. Start the motor. Wind the cable to the desired position. Turn the wheels of the vehicle from one side to the other 5 times. This will help to purge any air that might have got into the circuit.

If the manual control system works backwards, simply switch over the connectors of the brown and white wires on the solenoid valve.

Check that the winch works correctly by referring to the section COMMISSIONING-USAGE.

COMMISSIONING-USAGE

Do not use this equipment without having first fully read and understood the user manual. Failure to pay attention to these instructions whilst using this equipment poses a risk to your safety.

For your information, there are several other ways to motorise the winch:

- First method: use an additional pump for technical use.

(1) Use an additional pump without an oil valve; this provides the pressure for the steering housing and the winch.

- Second method: The winch takes its pressure from the vehicle power steering pump as indicated in the installation diagram.

(2): Use a combined pump that includes a dual function oil valve. The valve provides two types of flow depending on requirements: one for constant flow for the steering, the other at higher power for the technical side.



The hydraulic circuit must be fitted with a pressure relief valve to ensure the safety of the system. The system will pose significant potential risks if there is no pressure relief valve present and should not be used. There should also be a pressure relief valve present if your winch is actuated by an existing hydraulic system.

Please ensure that all workers adhere to the safety instructions before using the device:

- 1. Ensure that the gearbox is completely disengaged before starting to use the winch;
- 2. Keep away from raised loads;
- 3. Keep away from the cable when pulling and do not try to guide the cable;
- 4. Always ensure a minimum of 5 turns of cable around the drum.
- The rated load of the winch indicates the force applied to the first layer on the drum. Overloading can damage the winch, motor or cable. For loads greater than 70% of the rated load, we recommend using a double-line with pulley block. This will reduce:
 - the number of layers of cable on the drum,
 - the load on the cable by 50%. When you double the line and attach the return line to the vehicle, attach it to the chassis or another load-bearing part.
- The vehicle engine must be kept running while the winch is running in order to minimise the drain on the battery and maximise the power and speed of the winch. If the winch is operated for a considerable time with the engine off, the battery will drain and you may not be able to restart the engine.
- Get to know your winch before you actually need to use it. We recommend that you carry out some trial runs to practice attaching the cable, familiarise yourself with the sounds your winch makes under different loads, observe the way the cable is wound around the drum, etc.
- Inspect the cable and equipment before each use. A frayed or damaged cable must be replaced immediately. Only use a cable that meets the specifications recommended by the manufacturer.
- Inspect the winch's installation and bolts to ensure that all bolts are secure before each use.
- Never attach the cable to itself or it may become damaged. Always use a pulley block, sling or an appropriate-strength chain, as shown in the illustrations.
- Store the remote control inside your vehicle in a place where it will not get damaged.
- Any winch that looks to be damaged in any way, is found to be worn, or is not functioning correctly should no longer be used.
- When towing a vehicle, only pull on parts specified by the vehicle manufacturer.
- Only accessories and/or adapters supplied by the manufacturer should be used.
- Before using your winch, briefly test it in both directions. Even if the drum is only at an angle of a few degrees, ensure that the winch is well balanced, especially if you have used the clutch. The test will engage the gearbox with the drum once again if necessary.

8.1. Winch cable techniques



Identify a suitable anchor point. When choosing an anchor point, choose a strong, firm point such as a tree trunk or rock.

Always use a sling as an anchor.

Do not attach the hook to the cable as shown in Fig. 1, it could become damaged.

Do not winch at an acute angle. Doing so will cause the cable to wind on one side of the drum, which could damage the cable and the winch, as shown in Fig. 2 Short angle pulls can be used to straighten the vehicle. Long pulls should be done with the cable at a 90° angle to the winch/vehicle.



Figure 2

When pulling a heavy load, throw a blanket or jacket over the cable about 1.50 m from the hook. This way, if the cable breaks, the whiplash will be absorbed. For extra protection, open the bonnet of your vehicle as shown in Fig. 3.



For pulling loads greater than 70% of the rated load, we recommend using a pulley block to double the line. Fig. 4. This will reduce the load on the winch and the tension on the cable by up to 50%, depending on the angle.



▲ WARNING Never use the winch for hoisting or lifting or moving people. Fig. 5.

8.2. Operating the winch

> Preparation before winching

- 1. Take some time to assess the situation and prepare your winching operation appropriately.
- 2. Wear gloves to protect your hands.
- 3. Disengage the clutch by turning the switch to the DISENGAGE position. This will allow the cable to unwind freely and will save energy.
- 4. Attach the safety strap to the hook.
- 5. Pull the cable to the desired anchor point using the safety strap.
- 6. Attach the hook to the anchor point using a sling, chain or a pulley block. Do not hook the cable onto itself.
- 7. Engage the gearbox by turning the switch to the ENGAGE position. If the gearbox is not engaged, the winch drum should be turned by hand until the gearbox is completely engaged.
- 8. Connect the remote control to the winch.
- 9. Start the vehicle engine to ensure that the battery is charging. The vehicle engine must be running to provide maximum power to the winch. The vehicle should be in neutral with the handbrake applied. Chock the wheels to prevent it from moving.
- 10. Gradually put the cable under tension by gently guiding it. Once the cable is under tension, keep a safe distance. Never step on the cable.
- 11. Check the anchor points and ensure that all connections are secure.
- 12. Inspect the cable. Make sure there are the minimum number of turns required around the drum.
- 13. Place a blanket or jacket over the cable about 1.50 m from the hook. Open the vehicle bonnet for extra protection.
- 14. Make sure the area is clear. Ensure that all other people keep a safe distance away and that no one is directly in front of or behind either the vehicle or the anchor point.

> Winching operation

- 15. Start winching. Ensure the cable wraps evenly and tightly around the drum. The towing vehicle may be driven slowly to assist the winching process. Avoid jolting the cable. Keep the cable under tension.
- 16. If towing a vehicle, the vehicle in question must be in neutral with handbrake released. Only release the brake pedal when maximum tension is reached. Avoid jolting the load as this could damage the winch, the cable and the vehicle.
- 17. The winch is designed for intermittent use. When pulling a full load with a single line, do not winch for more than one minute at a time. Allow the motor to cool for a few minutes, then resume winching.
- 18. Winching is complete once the vehicle in question is on stable ground and can be driven under its own power.
- 19. Secure the vehicle. Be sure to park the vehicle and apply the brakes.
- 20. Release the tension on the cable. The winch is not designed to hold the vehicle for a long time.
- 21. Detach the cable from the anchor point.
- 22. Rewind the cable. Ensure that all of the cable already wrapped around the drum has been wound correctly. If this is not the case, pull the cable out and wind it again with the cable under tension.
- 23. Keep your hands away from the drum and the roller fairlead whilst winding the cable around the drum.
- 24. Secure the hook and the safety strap.
- 25. Unplug the remote control and store it in a suitable, dry place.
- 26. Clean and inspect the connections and mounting equipment for the next winching.



9.1. Winch

All of the winch's moving parts have been lubricated in the factory using a high-temperature lithium-based grease. No internal lubrication is required.

9.2. Cable

Grease the cable periodically using a fluid and penetrating oil.

If the cable is worn or begins to show signs that it might break, it must be replaced before using the winch.

- 1. Move the switch to the "DISENGAGE" position.
- 2. Pull out the full length of the cable. Take note of the manner in which the existing cable is attached to the drum.
- 3. Remove the old cable and attach a new cable to the drum. Insert the end of the new cable and tighten the M8 x 10 screw.
- 4. Ensure that the new cable is wound around the drum in the same direction as the old one.
- 5. Move the switch to the "ENGAGE" position.
- 6. Wind the cable around the drum. The first five turns of steel cable should be done carefully so that the cable is wound correctly. Next, the cable should be wound onto the drum with a load of at least 10% of the rated pulling force.

▲ WARNING

Any replacement cable must meet the same specifications as those recommended by the manufacturer.



If the equipment is in a condition which is likely to be hazardous, the user is obliged to ensure that the equipment is disposed of by decommissioning it and, where necessary, dismantling it.

11 spare parts

If you notice during maintenance tasks that certain parts of your winch need replacing, only original parts from the manufacturer should be used.

When ordering spare parts, please provide the following information:

- The type and force rating of the winch.
- The series number.
- The number or description of the desired parts (see exploded-view diagrams).

L2 TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SUGGESTED ACTION
The motor does not start	- The electrical connections need to be checked.	 Install a switch at the end of the cable. Tighten the nuts on all cable connectors.
The motor runs, but the drum does not turn	- Clutch not engaged	- Turn the gearbox to put it in the high or low speed position. If the problem persists, the winch should be checked and repaired by a qualified technician.
The drum turns but does not run at normal power.	 Not enough oil pressure or flow Not enough fluid in the circuit 	 The hydraulic system/motor is incorrect or defective. Replace it with a new one or one that meets the necessary requirements. Check the fluid level and add fluid until full.
The winch operates in the opposite direction to that on the switch.	- The electrical connections are the wrong way around on the solenoid valve.	- Simply swap over the connectors on the blue and yellow wires at the directional solenoid valve or swap over the hoses between the solenoid valve and the motor.
Winch dysfunction.	 The winch works in the wrong direction. Used brake pad. 	 Make sure the winch is clockwise (view from the end of the engine) Simply adjust the braking angle or replace the brake pade
		the brake paus.

cc	ANCHE
して	DECLARATION UE DE CONFORMITE
F03.31.1 -FR Treuils h	ydrauliques de véhicule
Nous déclarons, se conception que d	ous notre seule responsabilité, que la machine désignée ci-dessous correspond tant dans s ans sa construction aux exigences essentielles des législations d'harmonisation de l'Unio
Europeenne suivai	Directive Machines 2006/42/CE Directive CEM 2014/30/UE
Le dossier techniqu La validité de cel précédemment de De plus, la validité de sa notice, et si e	ue de la machine est constitué par le signataire de la présente déclaration. Le déclaration cessera en cos de modification ou élément ajouté n'ayant pas bénéfic notra accord. de cette déclaration cessera al l'utilisation de la machine n'est pas conforme aux instruction lie n'est pas verifiée régulièrement.
Type d'appareil :	Treuil hydraulique de véhicule
Modèle :	
Force :	
N° de série :	
Fonction :	Halage uniquement
Norme(s) harmoni 1 :2006+A1 :2009+ Assurance qualité	sée(s) utilisée(s), notamment : EN 60204-1 :2006+A1 :2009+AC :2010, EN 1449; AC :2010, EN ISO 12100 :2010, EN 61000-6-2:2005+AC :2005, EN 61000-6-4/2007+A1:2011 : ISO 9001 (n° d'enregistrement du certificat : FQA 9911492)
Matériel livré :	□ avec câble acier □ avec crochet
	□ sans câble □ sans crochet Important: ces éléments doivent respecter strupuleusement les précisions indiquées sur la plaque constructes Stude sur le trueil et la notice d'autilisation et être (fournis par des professionnels spécialisés en la matière.
	Pour haloge uniquement
et avec une notice	d'utilisation.
Fait à Ferrières, le	
	Antoine HUCHEZ, Président



HN15000IY1D



N°	Part N°	Qty	Description
1	HN1000001	2	Washer Ø 14
2	HN10500002	1	High pressure oil tube
3	HN1000003	2	Oil connection
4	HN1000004	2	Screw M12×30
5	HN1000005	2	Lock washer Ø12
6	HN1000006	1	Blanced valve
7	HN1000007	4	Cap screw M8 x 55
8	HN100008	12	Lock washer Φ8
9	HN1500100	1	Hydraulic motor
10	HN1000009	8	Screw M8 x 30
11	HN1000010	1	Brake (stents)
12	HN1000011	3	Brake (block)
13	HN1000012	2	Friction plate
14	HN1000013	2	o-ring seal
15	HN1000014	1	Piston
16	HN1000015	2	Disk spring
17	HN1000016	2	o-ring seal
18	HN1500017	1	Engine mount
19	HN1500018	2	Bushing drum
20	HN1000019	1	Coupling
21	HN1500020	1	Transmission shaft
22	HN1500200	1	Drum
23	HN1000021	1	Screw M8×10
24	HN1500022	1	Inner support
25	HN1500023	1	O-ring seal
26	HN1500024	1	Gear ring
27	HN1500300	1	Gear carrier assembly (output)
28	HN1500400	1	Gear carrier assembly (input)
29	HN1500025	1	anti-friction pad
30	HN1000026	1	Screw M8×10
32	HN1000500-2	1	Clutch handle
34	HN1500027	1	Gearbox housing
35	HN1000028	4	Lock washer Ø12
36	HN1000029	4	Screw M12×35
37	HN1000030	4	Nut
38	HN1000031	4	Screw M10×35
39	HN1000032	2	Tie bar
40	HN1000033	4	Lock washer Ø10
41	HN1000600	1	Switch (RCH)
42	HN1000700	1	Cable
43	HN1000034	1	Strap
44	HN1000035	4	Lock washer Ø12
45	HN1000036	4	Screw M12×20
46	HN1500800	1	Roller fairlead
47	HN1500900	1	Mounting plate
48	HN1000037	2	Cap screw M12×35
49	HN1000038	2	Flat washer Ø12
50	HN1000039	2	Lock washer Ø12
51	HN1000040	2	Lock nut M12
52	HN1000041	1	Mounting plate (
53	HN1000042	4	Lock washer Ø10
54	HN1000043	4	Screw M10×25
55	HN1501000	1	Rope press roll
56	HN1000044	4	Lock washer Ø12
57	HN1000045	4	Screw M12×30

