

tekstap DDJP20000

tekstap 20000LB Heavy Duty Electric Winch DDJP20000 User Manual

Model: DDJP20000 | Brand: tekstap

1. SAFETY INFORMATION

Read and understand all safety warnings and instructions before operating this electric winch. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- Always wear appropriate personal protective equipment, including gloves and eye protection, when operating the winch.
- Keep hands and body clear of the fairlead, hook, and winch rope during operation.
- Never exceed the rated line pull capacity of the winch.
- Ensure the vehicle's engine is running during winching operations to maintain battery charge.
- Do not operate the winch if the rope is frayed, kinked, or damaged. Inspect the rope before each use.
- Maintain a safe distance from the winch and load during operation.
- Ensure all electrical connections are secure and free from corrosion.
- Avoid prolonged continuous winching to prevent motor overheating. Allow the motor to cool down between cycles.

2. PRODUCT OVERVIEW

The tekstap 20000LB Heavy Duty Electric Winch is designed for vehicle recovery and heavy-duty pulling applications. It features a robust construction with advanced components for reliable performance in challenging environments.

Key Features:

- **High Pulling Capacity:** 20,000 lbs (single-line pull) for demanding recovery tasks.
- **IP68 Waterproof Rating:** Designed to withstand submersion for over 30 minutes, ensuring functionality in wet and muddy conditions.
- **Powerful Motor:** 7.9HP 12V DC sealed motor provides consistent torque.

- **Efficient Gear System:** 4-stage planetary gear with a 544:1 ratio for smooth power distribution.
- **Advanced Control:** Dual wireless remotes and a 3-pin wired controller (11.5ft/3.5m) for flexible operation.
- **Durable Contactor:** 500A sealed contactor resists corrosion and short circuits.
- **Integrated Safety Brake:** 100% automatic load-holding brake prevents load slippage.
- **Versatile Clutch:** 90° clutch switch for quick engagement and freespool mode.
- **Synthetic Rope:** 0.47 inch x 85 feet (12mm x 26m) synthetic rope, known for being lighter, stronger, and floating on water.
- **Mounting Compatibility:** 10"x4.5" mounting pattern fits most trucks, Jeeps, and SUVs.



A general view of the tekstap 20000LB Heavy Duty Electric Winch, showcasing its robust design and synthetic rope.

3. PACKAGE CONTENTS

The tekstap 20000LB Electric Winch comes as a complete kit, ready for installation. Please verify all components are present upon unboxing.

- Electric Winch Unit with 0.47in x 85ft Synthetic Rope

- Hawse Fairlead (or Roller Fairlead, depending on model variant)
- Two Wireless Remote Controls
- Wired Controller (11.5ft/3.5m)
- Heavy-Duty Hook
- Mounting Hardware
- Instruction Manual

4. SPECIFICATIONS

Specification	Value
Manufacturer	tekstap
Item Weight	85.8 pounds
Product Dimensions	24 x 7 x 10 inches
Item Model Number	DDJP20000
Color	Black
Included Components	Hardware
Batteries Included?	No
Batteries Required?	No
Recommended Battery CCA	650 CCA
Rope Type	Synthetic
Rope Dimensions	0.47 inch x 85 feet (12mm x 26m)
Motor Horsepower	7.9 HP
Gear Ratio	544:1
Waterproof Rating	IP68

PRODUCT DIMENSION



Diagram illustrating the key dimensions of the tekstap 20000LB Electric Winch, including length, width, and height.

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your winch. If you are unsure about any steps, consult a qualified professional.

Installation Steps:

1. **Mounting Location:** Select a suitable mounting location on your vehicle that can support the winch's weight and pulling forces. The winch features a standard 10"x4.5" mounting pattern.
2. **Secure Mounting:** Use the provided hardware to securely fasten the winch to the mounting surface. Ensure all bolts are tightened to the manufacturer's specifications.
3. **Electrical Connections:** Connect the winch to a 12V DC power source. A battery with a minimum of 650 CCA (Cold Cranking Amps) is recommended for optimal performance. Ensure positive (+) and negative (-) terminals are correctly identified and connected.
4. **Contactor and Remote Wiring:** Connect the control box/contacter according to the wiring diagram provided in the full manual. This includes connections for the motor, battery, and remote control ports.
5. **Fairlead Installation:** Install the hawse or roller fairlead to guide the synthetic rope smoothly and protect it from abrasion.

6. **Rope Spooling:** Carefully spool the synthetic rope onto the winch drum, ensuring it is wound tightly and evenly under a light load (e.g., 500 lbs). Leave at least five full turns of rope on the drum at all times.

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SEALED SERIES WOUND 7.9HP MOTOR

- **ELECTRICAL CONTROLS:
500A SEALED CONTACTOR**

The 500A controller has higher current capacity, better overload protection, wider application flexibility, and robust durability for long-term reliable use.

- **MOTOR: 7.9HP 12V**

Offers advantages like high starting torque, sealed design for waterproof/dustproof protection, adaptive load capacity, durable construction



Close-up view of the winch's 7.9HP sealed motor and 500A sealed contactor, highlighting their robust construction for durability.

HIGH-STRENGTH STEEL ROPE 0.47INx85.3FT

Greater strength and wear - resistance

Diameter&Length

0.47INx85.3FT



Detailed view of the 0.47 inch diameter by 85 feet long synthetic rope, emphasizing its high strength and wear resistance.

6. OPERATING INSTRUCTIONS

Familiarize yourself with the winch controls and operating procedures before attempting any recovery operations.

Clutch Operation:

- **Engaged Mode:** To engage the winch for pulling, rotate the clutch lever 90 degrees to the 'Engaged' position. This connects the motor to the drum.
- **Freespool Mode:** To manually pull out the rope or adjust its length quickly, rotate the clutch lever 90 degrees to the 'Freespool' position. This disengages the drum from the motor, allowing it to spin freely. Always ensure the clutch is fully engaged before winching.

Rotate 90° to ENGAGED Or DISENGAGED



Image demonstrating the 90-degree rotation of the clutch lever to switch between engaged (winching) and freespool (manual rope release) modes.

Using Remote Controls:

- The winch can be operated using either the wired controller or one of the two wireless remote controls.
- **Wired Controller:** Connect the wired controller to the designated port on the control box. Use the 'IN' button to retract the rope and the 'OUT' button to extend the rope.
- **Wireless Remotes:** Ensure the wireless remotes have working batteries. Press the 'IN' button to retract the rope and the 'OUT' button to extend the rope. The maximum remote control distance is approximately 100 feet.
- Always operate the winch from a safe distance, keeping clear of the rope and load.

WIRELESS REMOTE CONTROL



Maximum Remote Control Distance 100Ft



TWO OPERATING MODES
Wireless & Wired Control



Illustration showing the two wireless remote controls and the wired controller for operating the tekstap electric winch from a safe distance.

General Winching Procedure:

1. Assess the recovery situation and plan your pull. Identify a secure anchor point.
2. Engage the clutch.
3. Slowly begin winching, observing the rope and load for any issues.
4. If the winch struggles, consider using a snatch block to double the line and reduce the load on the winch.
5. Once the recovery is complete, disengage the clutch and carefully respool the rope.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your tekstap electric winch.

- **Rope Inspection:** Regularly inspect the synthetic rope for signs of wear, fraying, or damage. Replace the rope if any damage is found.
- **Electrical Connections:** Check all electrical connections periodically for tightness and corrosion. Clean terminals as needed.

- **Winch Housing:** Keep the winch housing clean and free of dirt, mud, and debris.
- **Lubrication:** Refer to the full service manual for any specific lubrication requirements for internal components.
- **Storage:** When not in use, store the winch in a clean, dry environment.

8. TROUBLESHOOTING

If you encounter issues with your winch, refer to the following basic troubleshooting steps:

- **Winch Not Operating:**
 - Check battery connections for tightness and corrosion.
 - Ensure the vehicle's battery has sufficient charge (minimum 650 CCA recommended).
 - Verify the wired controller or wireless remotes are functioning correctly (check remote batteries).
 - Inspect the control box wiring for loose connections.
- **Winch Operates Slowly or Weakly:**
 - Check for an overloaded condition; the load may exceed the winch's capacity.
 - Ensure the battery is fully charged and in good condition.
 - Inspect electrical cables for damage or inadequate gauge.
- **Motor Overheating:**
 - Allow the winch motor to cool down between heavy pulls.
 - Reduce the load or use a snatch block to decrease strain.

For more complex issues or repairs, contact tekstap customer support or a qualified service technician.

9. WATERPROOF PERFORMANCE TEST

The tekstap 20000LB Electric Winch is designed with an IP68 waterproof rating, allowing it to operate effectively even when submerged in water. This feature is critical for off-road recovery in wet conditions.



An image depicting the tekstap winch submerged in water, demonstrating its IP68 waterproof capability, with a jeep in a muddy environment in the background.

Your browser does not support the video tag.

Official video demonstrating the tekstap electric winch's IP68 waterproof performance through a submersion test, followed by disassembly to confirm internal dryness.

10. APPLICATIONS

The tekstap 20000LB Heavy Duty Electric Winch is suitable for a wide range of recovery and pulling applications, including:

- Off-road vehicle recovery (Trucks, Jeeps, SUVs)
- ATV recovery
- Boat launching and retrieval
- General utility pulling tasks

DESIGNED FOR YOUR OFF-ROAD & DAILY NEEDS



Boat



ATV



SUV



Truck

An image showcasing various applications for the tekstap winch, including use with boats, ATVs, SUVs, and trucks.

11. WARRANTY AND SUPPORT

tekstap provides a warranty for this product against defects in materials and workmanship under normal use. For specific warranty terms, duration, and to register your product, please refer to the warranty card included with your purchase or visit the official tekstap website.

For technical assistance, troubleshooting, or replacement parts, please contact tekstap customer support. Have your model number (DDJP20000) and purchase information ready when contacting support.