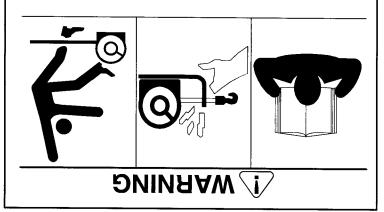
SAFETY PRECAUTIONS



GRAZAH TRAS DNIVOM

TO PREVENT SERIOUS INJURY AND PROPERTY DAMAGE:

- Do not operate or install winch without reading and understanding the operators manual.
- Keep hands clear of wire rope, hook, and fairlead opening during operation and when spooling.
- Stand clear of wire rope and load during operation.
- Keep others away.
- Always inspect winch installation and wire rope condition before operating winch.
- Do not exceed winch rated capacity.
- Never touch wire rope or hook while in tension.



12900 S.E. Capps Rd. * Clackamas, Oregon 97015 * USA 503-722-1200 * Customer Service Line: 1-800-543-WARN Fax: 503-722-3000

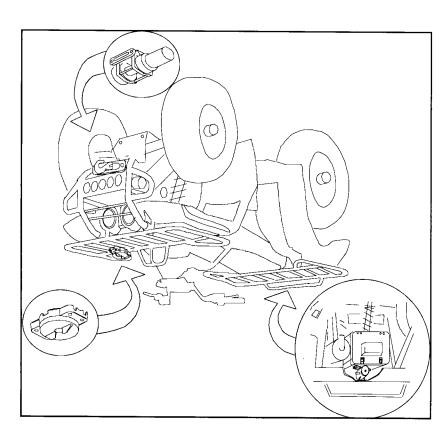
Installation Instructions,
Operator's Manual and
Replacement Parts List for
the

A2000 ATA WINCH

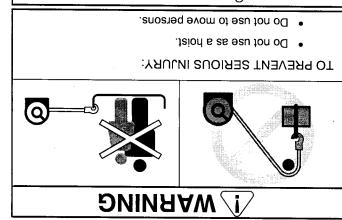
INSTALLATION INSTRUCTIONS

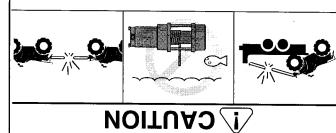
STEP ONE - SAFETY FIRST

When installing your ATV winch system, read and follow all mounting and safety instructions. Always use caution when working with electricity and remember to verify that no exposed electrical connections exist before energizing your winch circuit.



APPLICATION INFORMATION NARMING NARMING





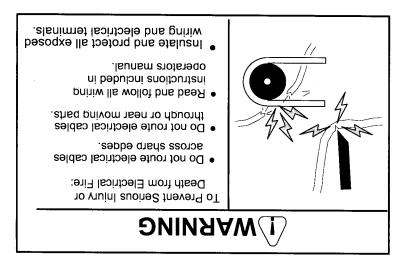
TO AVOID INJURY AND PROPERTY DAMAGE:

- Do not use winch to secure a load during transport.
- Do not submerge in water.
- Do not use to tow other vehicles.
- Maximum single line pulling capacity: 2000 lb. (900 kg).
- Intermittent duty rating.

12 Volts DC.

• Use only 3/16" (4.8 mm) 7 x 19 aircraft wire rope.

STEP THREE - SOLENOID INSTALLATION

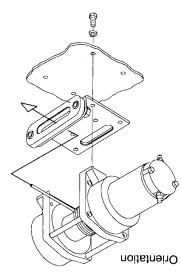


The solenoid is a primary safety feature in your winch system. It disconnects your winch from its power source when the ATV is not in use. Carefully follow the instructions for installation. The solenoid must be correctly installed to work properly. Choose a mounting location that will remain protected and dry. Mounting under the Choose a mounting location that will remain protected and dry. Mounting under the Choose a mounting location that will remain your soler.

STEP TWO - WINCH MOUNTING

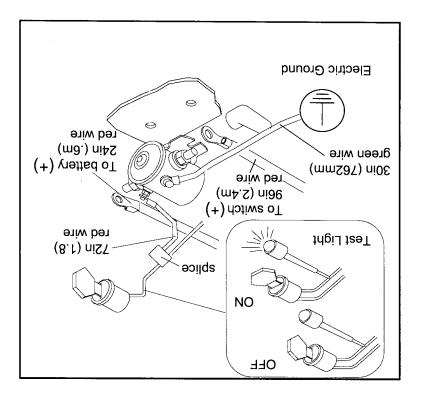
ATV winch mounting kits are available from Warn Industries to satisfy nearly all ATV applications. For information on available kits, contact your Warn product dealer. Additionally, the winch may be custom installed.

For custom installations, always remember:
Choose a mounting location that is sufficiently strong enough to withstand the loads you intend to winch.



To secure the winch, always use:

- A flat, secure mounting location at least 3/16 in. (4.8 mm) thick.
- 5/16 in. lockwasher x 4.
- 5/16-18 x 1 in. long, hex head capscrew, Grade 5 or better x 4.
- Torque mounting bolts to 12 ft-lbs.



STEP FOUR - MAKING CONNECTIONS

- Turn ATV key switch to OFF position.
- Identify mounting location of control switch (see page 10). Route the yellow and blue 48in (1.2m) wires from winch motor to control switch at this time). Slide terminal location (Do not attach wires to the control switch at this time). Slide terminal boots over the motor end of the wires. Attach the yellow wire to motor terminal #1 and the blue wire to motor terminal #2 and cover with boots.
- Attach and route the black 96in (2.4m) wire labeled negative (-) from negative battery terminal to the control switch mounting location (see page 11). Route the red 96in (2.4m) wire from the solenoid to the control switch at this time).

Caution - Place the supplied terminal boots on wires before securing to the solenoid.

- Attach the small eyelet of the green, 30in (762 mm), 20ga wire to the small left solenoid control post. Attach the small eyelet of the red, 72in (1.8 m), 20ga wire to the small right solenoid control post (see page 8).
- Attach the red 24in (0.6m) 8gs wire to the large right solenoid post. Attach the red 96in (2.4m) 8gs wire to the large left solenoid post (see page 8).
- Attach the large eyelet of the green, 30in (762 mm), 20ga wire to an electrical ground such as the negative battery post or a frame member. Splice the other end of the red, 72in (1.8 m), 20ga wire to a key controlled electrical wire of the ATV. Using a test light, locate a suitable wire from the ATV key switch of the ATV. Using a test light, locate a suitable wire from the Key is in the "ON" position.

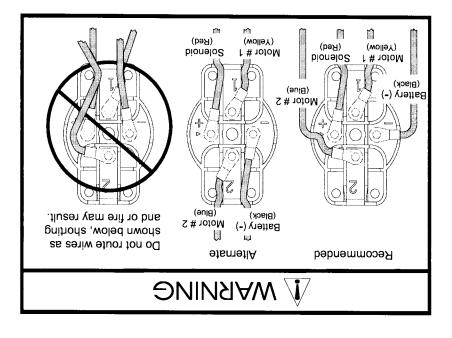
Caution - When the key is turned to the ON position, the red 96in (2.4m) 8ga wire will be hot. Avoid touching the terminal end to the bike frame.

 Test for proper installation. When the key is turned to the ON position, the solenoid will make an audible "click" indicating that it is energized. Otherwise, check proper grounding and splice connection.

STEP FIVE - CONTROL SWITCH INSTALLATION

WARNING - Improper installation may result in permanent damage to the control switch. Carefully follow the instructions for installation. The control switch must be correctly installed to work properly.

- Connect the four remaining wire ends to the appropriate control switch posts.
- Bend the cables and terminals as required. The control switch has molded labels (1,2,+,-) to identify the proper connections.
- Mount the control switch. Be sure to use the insulator plate between the bottom of the switch and the mounting surface.



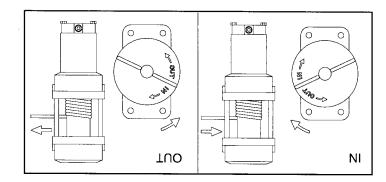
Cap Solenoid Green Wire Ground Red Wire (m8.) ni42 Red Wire (m4.S) ni8e Splice Key Switch Battery Black Wire (m 4.2) .ni 8e Yellow Wire ₩Į Motor (mS.f) ni84 Blue Control Switch

 Assure that cables do not cross sharp edges or contact items that may become hot.

STEP SIX - SYSTEM CHECK

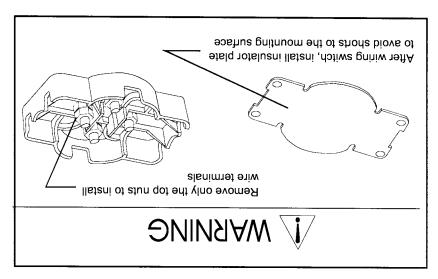
Before using the winch, verify the following:

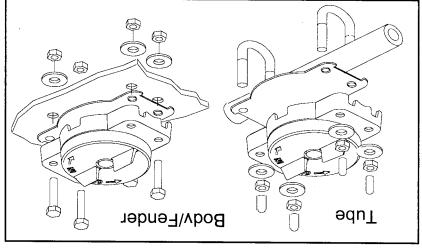
- Wiring to all components is correct.
- There are no exposed wiring or terminals, cover any existing exposures with insulator plate, terminal boots, heat shrink tubing or electricians tape.
- The solenoid is properly grounded.
- Turn ATV key switch to ON position. Check winch for proper operation.



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KNOW YOUR WINCH: Take time to fully understand your winch and the winching operation.





BATTERY RECOMMENDATIONS

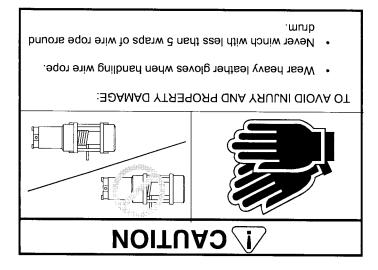
A fully charged battery and good connections are essential to the proper operation of your winch. The minimum requirements for a 12 volt DC battery is 10 AMP hours.

MAINTENANCE

- No lubrication is required for the life of the winch.
- Check battery cables at 90 day intervals to be certain that they are clean and tight at all connections.
- Inspect the wire rope before and after each winching operation. Replace when damaged.

SPOOLING OUT

Freespooling is generally the quickest and easiest way to spool out wire rope. Before freespooling wire rope out from the winch, power out enough tope to remove any tension the wire rope may be under before disengaging the clutch. Now freespool by manually spooling out enough wire rope for the winching operation.



OPERATING INSTRUCTIONS

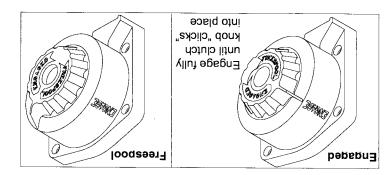
ИОІТАЯЗЧО НОТИЈО

DUINAAW

TO PREVENT SERIOUS INJURY OR PROPERTY DAMAGE:

 Do not disendage clutch if winch is under load or wire rope is in tension.

When the clutch is engaged the gear train is coupled to the wire rope drum and power may be transferred from the winch motor. When the clutch is in free spool the gear train and wire rope drum are uncoupled allowing the drum to rotate freely. The clutch knob, located on the winch housing opposite the motor, controls the clutch position. To prevent damage, always fully engage or fully disengage the clutch knob.



OVERLOADING/OVERHEATING

This winch is rated for intermittent duty. It should not be operated with the motor slowed down to a low RPM. When the motor approaches stall speed, a very rapid heat build-up occurs which may cause motor damage. To judge safe running time, stop winching and lay your hand on the motor. If the temperature is uncomfortable, shut down and cool the motor. This can be used as an opportunity to recharge the battery. Double line rigging will reduce the amperage draw from the motor allowing longer continual use (see rigging section).

SPOOLING IN UNDER NO LOAD

- Assisted: Have your assistant hold the hook with the hook strap putting as much constant tension on the wire rope as possible. While keeping tension, the assistant should walk toward the winch while you operate the control switch spooling in the wire rope. Release the switch when the hook is a minimum of 4 ft spooling in the wire rope. Spool in the remainder for storage.
- Unassisted: Arrange the wire rope to be spooled so it will not kink or tangle
 when spooled. Be sure any wire rope on the drum is tightly and evenly layered.
 Spool enough wire rope to complete the next full layer on the drum. Tighten and
 straighten the layer. Repeat process until the hook is a minimum of 4ft (1.2m)
 from the fairlead. Spool in the remainder for storage.

SPOOLING REMAINDER FOR STORAGE

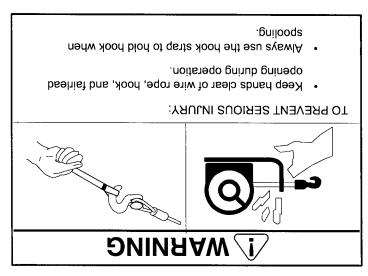
Keep hands clear of wire rope, hook, and fairlead opening. Always use hook strap to hold hook when spooling under no load. Carefully power in the remaining wire rope, jogging the control switch to take up the last of the slack. Secure the hook to a suitable anchor point near the winch. Be careful not to over tighten or damage may occur to the wire rope or anchor point.

RIGGING

- Always spool out as much wire rope as possible when preparing rigging. Pick an anchor as far away as is practical; this provides the winch with its greatest pulling power.
- Rigging a double line with a snatch block will reduce the load on the winch to half without significant loss of spooling speed.
- Natural anchors such as trees, stumps and rocks are the handlest when available. Attach the choker chain, wire choker rope or tree trunk protector on the anchor as low as possible to avoid pulling the anchor down. If several possible anchors are available but they are not strong enough individually, it may be practical to attach a wire or chain choker around several anchors to form a strong collective anchor point.

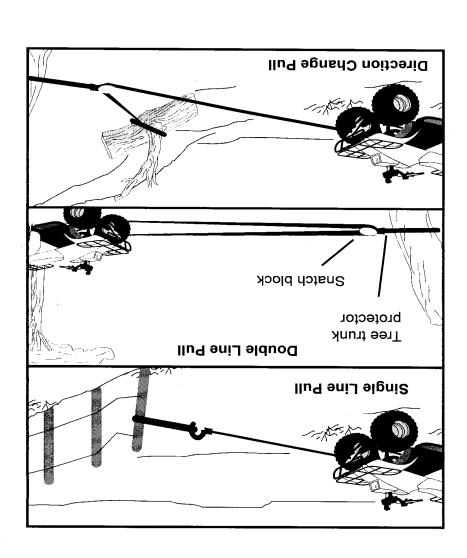
STRETCHING THE WIRE ROPE

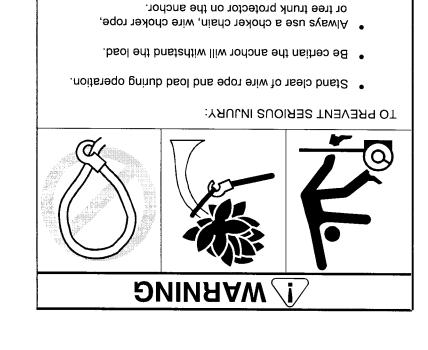
The life of a wire rope is directly related to the care and use it receives. During its first use, a new wire rope must be spooled onto its drum under a load of at least 500 lb. (227kg). Spool out the entire wire rope length leaving 5 wraps on the drum, then power in the wire rope under a load of 500 lb. (227kg) or more. This will stretch new wire rope and create a good wire wrap around the drum. Failure to do so may result in the outer wire wraps drawing into the inner wraps, binding, and damaging the wire rope.



SPOOLING IN UNDER LOAD

- The wire rope must always spool onto the drum as indicated by the drum rotation decal on the winch.
- Power in the wire rope evenly and tightly on the drum. This prevents the outer wire wraps from drawing into the inner wraps, binding and damaging the wire rope.
- Avoid shock loads when spooling, by using the control switch intermittently
 to take up wire rope slack. Shock loads can momentarily far exceed the winch
 and wire rope ratings.





Approximate pulling power:

 Pulling Power
 Wire Rope Layer

 2000 lb. (703kg)
 1st layer closest to drum core

 1550 lb. (703kg)
 3rd layer

 1550 lb. (635kg)
 4th layer

Take your time, sloppy rigging causes accidents.

• Some of the most commonly used riggings are shown on page 18.

WARN A2000 ATV WINCH REPLACEMENT PARTS LIST

Cable Assy., 8 GA, black, 96 in	99019	ı	
Socket Head Capscrew 7/16-14 X 34	09279	i	09
Nut 7/16-14 W/Nylon Insert	65759	l	6₽
Wire, 20 GA, Green, 30 in, Ground	36928	ı	84
Roller Fairlead (Optional)	58628	ı	74
Strap, Hook	38293	l	97
Fairlead, Plate Mounting	21666	ı	42
Hook, 5/16 Clevis Slip w/ Strap	78868	ı	77
Fairlead, Hawse	28718	l	43
5/16-18 Hex Head Capscrew	21331	Þ	1.7
Insulator, Switch, ATV 5/16 Lockwasher	1402	Þ	01
Cap, Vinyl	37543	ŀ	38
həsni nolyN/W \\ \frac{1}{\text{VinV}} \\ \text{Os}\)	37526	Þ	38
Control Switch Assy (includes part # 37526, 37205, 6725, & 37543)	6725	Þ	9E
U-bolt, 1/4-20 x 1 x 1 3/4	30012	ļ Z	
Cable assy, 8 GA, red, 96 in	91205 37205	2 2	32 34
AD 0.5 (so) flat	21842	i I	33 74
Cable assy, 20 GA, red, 72 in	21840	i	32
Boot, Electric terminal	21841	Š	33
Solenoid Assembly	17829	ì	30
Cable assy, 8 GA, red, 24 in	21262	i	50
Cable assy., 8 GA, blue, 48 in	91049	i	79Z
Cable assy, 8 GA, yellow, 48 in	\$1019	i	268
Boot, Electric terminal	21422	Þ	52
Cap assy, 12 & 24 VDC Motor	31928	i	24
Motor, 24 VDC	36032	í	23
Motor, 12 VDC	36031	i	23
Armature, 24 VDC Motor	22672	i	22
Armature, 12 VDC Motor	71294	ı	22
Sockef Head Capscrew 1/4-20 X 5/8	1936	Þ	71
Socket Head Capscrew 1/4-20 X 1/2	9968	Þ	50
Endhousing, Motor assy (includes part # 35033 & 21316)	36054	l	46
Sun Gear, Śtage 1	21290	l	81
Carrier Assy., Stage 1	21320	l	۷,
Clutch Return Spring	21883	l	۹٤
Drive Shaft, No Clutch	30468	Ļ	かし
Drive Shaff	34797	l	ÞΙ
Tie Rod	21268	2	13
Wire Rope Assy., 3/16" x 50'	92009	ŀ	15
Drum Assy (no wite rope)	31565	ļ	ļ ļ
Cable Protector Drum Assy (no wire rope)	87009	; 2 2 2	11
Drum Support with Bushing	25257	۱ 7	01
Drum Bushing	21296 21296	6	6
Dropport	21665	7	6
Carrier Assy., Stage 3	21330	ì	8
Carrier Assy., Stage 2	51350	ì	۵
Sun Gear, Stage 2	21230	į	3 5 7
Thrust Plate	21895	i	t
Cam Follower	21872	i	Ė
Square Nut	£964	Þ	ž
Endhousing, No Clutch	26053	i	ĭ
Endhousing, Clutch assy (includes items 3 & 4)	36030	i	i
DESCRIPTION	NUMBER	ΥTΩ	Mati
e obtained through your local dealer or distributor.	ATION: Parts may b	С ІИГОЙМ	ORDERIN
REPLACEMENT PARTS LIST			

Service

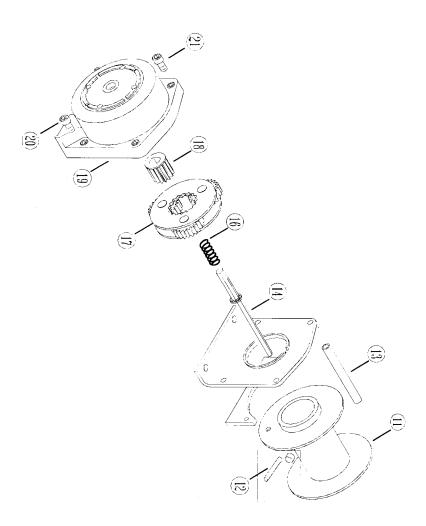
Should you encounter a problem: these steps toward resolving the problem:

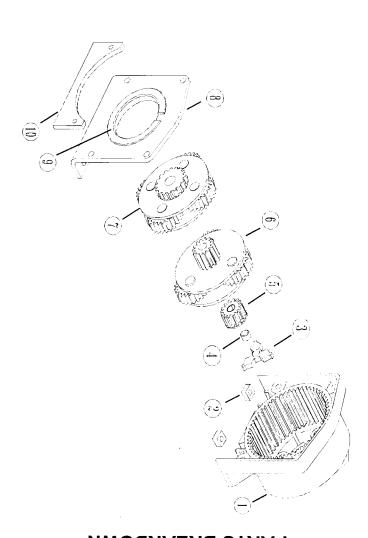
- 1. Refer to your operator's guide and installation instructions. It has illustrations and detailed information on the installation and safe and proper operation of your winch. It also includes a replacement parts list and assembly diagrams. If you are unable to resolve the problem, then go to step 2.
- 2. Contact your dealer where you purchased your winch. If, after discussing the problem with their parts and service staff, you are still unable to resolve the problem then go to step 3.
- 3. Call an Authorized Warn Service Center from the list provided on the back of the warranty sheet included with the product. When calling, please have the following information available: winch model number and purchase date, make, model & year of ATV.
- 4. If you are unable to resolve the problem to your satisfaction, please call Warn Industries customer service at 1-800-543-9276. When calling, please have the following information available: winch model number and purchase date; make, model & year of ATV. You may also contact Warn by visiting our website www.warn.com.

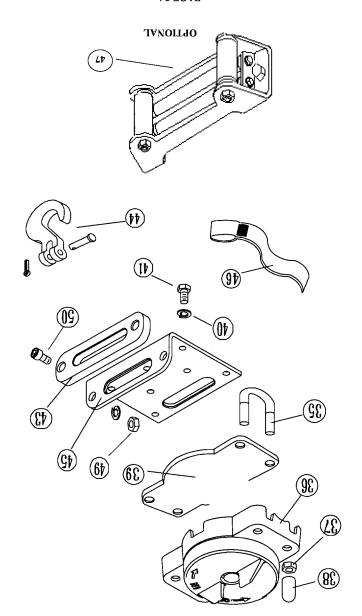
Warranty

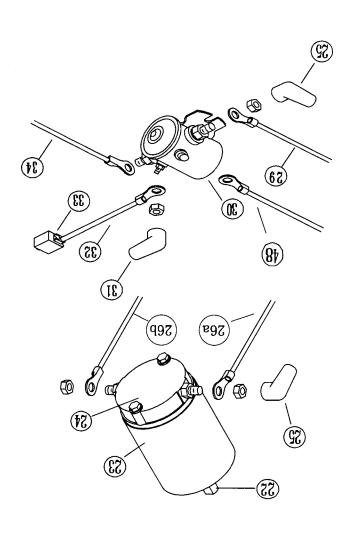
Please refer to the warranty sheet enclosed with your winch for details.

PARTS BREAKDOWN









PN 21972 REV. T1

PAGE 25