Strongarm.

120 Volt AC ELECTRIC WINCHES

OWNER'S (MANUAL

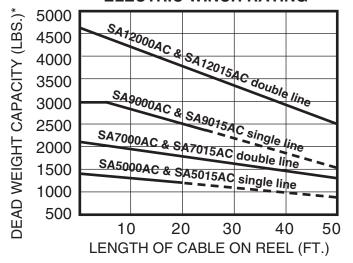
MODELS SA5000AC, SA5015AC, SA7000AC, SA7015AC, SA9000AC, SA9015AC, SA12000AC, SA12015AC

CE UK CA

ATTEMPTING TO INSTALL, OPERATE OR SERVICE THE STRONGARM ELECTRIC WINCH. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN SERIOUS OR FATAL INJURY. RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.

WINCH RATINGS

ELECTRIC WINCH RATING*



DOUBLE LINE OPERATION

Models SA7000AC, SA7015AC, SA12000AC and SA12015AC are factory equipped with a pulley block and hook and 50' of cable for double line operation. This increases the pulling capacity of the winch as shown, however, care must be taken to allow adequate motor cooling. Note that with double line, a pull of 25' requires reeling in 50' of cable. For intermittent use only. Ratings at left are based on 10' pull. For longer pulls motor cooling periods must be allowed.

MAXIMUM CONTINUOUS RUN TIME 3 MINUTES

CAUTION: CONTINUOUS RUNNING IN EXCESS OF 3 MINUTES WILL DAMAGE WINCH MOTOR.

GUIDE TO ROLLING LOAD CAPACITY** Maximum weight in pounds and kilograms rolling load.

MODEL								
	5%	10%	20%	30%	50%	70%	LOAD	
	(3°)	(6°)	(11°)	(17°)	(26°)	(35°)	CAPACITY*	
SA5000AC	8,000 lbs.	6,000 lbs.	4,000 lbs.	3,100 lbs.	2,200 lbs.	1,800 lbs.	1,200 lbs.	
SA5015AC	3,629 kg	2,722 kg	1,814 kg	1,406 kg	998 kg	816 kg	544 kg	
SA7000AC	12,000 lbs.	9,000 lbs.	6,100 lbs.	4,600 lbs.	3,300 lbs.	2,700 lbs.	1,800 lbs.	
SA7015AC	5,443 kg	4,082 kg	2,767 kg	2,087 kg	1,497 kg	1,225 kg	817 kg	
SA9000AC	18,000 lbs.	13,500 lbs.	9,100 lbs.	6,900 lbs.	5,000 lbs.	4,100 lbs.	2,700 lbs.	
SA9015AC	8,165 kg	6,124 kg	4,128 kg	3,130 kg	2,268 kg	1,860 kg	1,225 kg	
SA12000AC	26,700 lbs.	20,100 lbs.	13,600 lbs.	10,300 lbs.	7,400 lbs.	6,100 lbs.	4,000 lbs.	
SA12015AC	12,111 kg	9,117 kg	6,169 kg	4,672 kg	3,357 kg	2,767 kg	1,814 kg	

- (*) Load capacity (dead weight) is a measure of actual maximum force to which the winch system may be subjected.
- (**) All capacities shown are with 15' of cable on the reel and 10% rolling friction factor. For full reel of cable adjust capacities according to graph above. Note 5% incline is one-half foot rise in ten feet.

APPROXIMATE LOAD SPEED (FT./MIN.)

	NO I	_OAD	FULL LOAD		
	Full Reel	Empty Reel	Full Reel	Empty Reel	
SA5000AC SA5015AC	35	16	16	9	
SA7000AC SA7015AC	17.5	8	9.5	6	
SA9000AC SA9015AC	18	6	7	3.5	
SA12000AC SA12015AC	9	3	4	2	

WARNING: NOT TO BE USED AS A HOIST FOR LIFTING, SUPPORTING OR TRANSPORTING PEOPLE OR LOADS OVER AREAS WHERE PEOPLE COULD BE PRESENT!

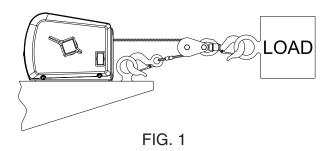
IMPORTANT SAFETY INFORMATION

- AWARNING: FAILURE TO READ AND FOLLOW INSTRUCTIONS BELOW COULD RESULT IN SERIOUS OR FATAL INJURY.
- AWARNING: NOT TO BE USED AS A HOIST FOR LIFTING, SUPPORTING, OR TRANSPORTING PEOPLE OR LOADS OVER AREAS WHERE PEOPLE COULD BE PRESENT.
- ⚠ This winch is not designed for movement of human beings. Do not use for scaffolding, elevators, or any other application in which persons could be positioned on or under the load at any time. Do not use as an overhead hoist.
- ▲ Consult the manufacturer before using this winch in any vertical lifting/lowering applications. Tel. 402-462-4141, Fax 402-460-4613 E-Mail dlsales@dutton-lainson.com
- ⚠ This electric winch should be respected as power equipment. High forces are created when using a winch, creating potential safety hazards. Never allow children or anyone who is not familiar with the operation of the winch to use it.
- A Never exceed rated winch load. Dangerously high forces can be created if the load being moved is too large or is allowed to get in a bind, etc. Note that installing longer than normal cable results in increased load on winch. If overloaded, this winch has power enough to break the cable.
- ⚠ Winch is equipped with a high-quality aircraft cable capable of handling the rated winch load. Never exceed the rated capacity. Do not use vehicle pulling power to increase the pulling capacity of your winch. When cable breakage occurs under tension, the cable tends to whip toward the winch area. It is recommended that a blanket or rug be placed over the cable during winching operations to minimize this whipping action in case of cable breakage.
- A Never apply load to winch with cable fully extended. Keep at least three turns of cable on the reel.
- ▲ Keep the winching area free of all unnecessary personnel. Never stand between load and winch.

- ♠When winching operation has been completed, do not depend on the winch to support the load. Always secure the load properly. Use tie down straps or chains.
- ⚠ The auxiliary handle is provided for emergency use only. Never use the auxiliary handle as an assist to the motor when the motor is running. Always remove the auxiliary handle when it is not in use. Do not operate the winch motor or allow the winch to free wheel with the handle installed.
- AC winches, as with any other 120-volt tools. It is recommended that whenever a 120-volt AC winch is out-of-doors that it be used with a ground fault circuit interrupter. The winch should be used only with a three pronged grounded outlet. Do not remove the grounding prong on the power cord for any reason. Do not operate the unit in the rain or when it is wet. Avoid using the winch around water or water pipes and never operate the winch while standing in water.
- ♠ Periodically check the power cord for wear or frays which could cause electrical shorts or shocks.
- ▲ Keep hands and fingers clear of the drum and cable area of the winch when operating. Do not attempt to guide the cable by hand as it rewinds on the drum.
- ⚠ The winch must be securely attached to a structural member or frame that is capable of sustaining loads in excess of the winch capacity. When attaching the winch to a vehicle, make sure the mounting pad area is rigidly supported by the vehicle frame. Always block the wheels to prevent vehicle from rolling when pulling a load with the winch.
- ★When releasing a load with the clutch, maintain control of the speed. Excess speed could result in winch damage and serious personal injury.

MOUNTING INSTRUCTIONS

- Be sure that the mounting surface is of sufficient strength to support a load well in excess of the rated winch capacity.
- Fasten the winch to the trailer winch stand (or other mounting surface) with three 1/2" bolts, nuts, washers and lock washers. Be sure that the winch is positioned so that the cable does not rub the front opening of the winch.
- 3. For double line use, install an eyehook on the winch stand close to the base of the winch for fastening the stationary cable hook.(see Fig. 1) Be sure the eyehook is of sufficient strength to withstand loads in excess of the single line rating of the winch.



4. Your winch is equipped with keyhole slots in the base for use with quick mounting shoulder studs, if desirable. (See FIG. 2&3) If you wish to use quick mount studs, they should be mounted securely into the winch stand. After positioning the winch on the studs, a 3/8" bolt should be placed in one of the other holes available to keep the winch securely in position.

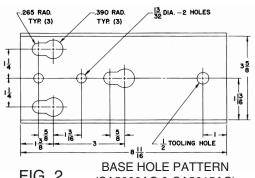


FIG. 2 (SA5000AC & SA5015AC) (SA7000AC & SA7015AC)

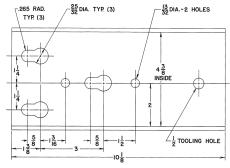


FIG. 3 BASE HOLE PATTERN (SA9000AC & SA9015AC) (SA12000AC & SA12015AC)

LOADING AND UNLOADING UNDER POWER

With the clutch in the engaged gears position, you may power the winch in either the "in" or "out" direction.

- 1. To operate the unit, simply press the switch "in" for loading and "out" for unloading.
- 2. Allowing the switch to return to the OFF position will automatically stop the winch and lock the load in position.

NOTE: It is normal for smoke to be produced during the initial power down use.

- WARNING: BECAUSE THE WINCH IS NOT EQUIPPED WITH CIRCUIT BREAKER OVERLOAD PROTECTION, PARTICULAR CARE SHOULD BE TAKEN NOT TO CREATE AN OVERLOAD. PAY ATTENTION TO THE SOUND OF THE WINCH AND THE LOAD BEING PULLED. MAKE CERTAIN THAT THE CABLE TENSION DOES NOT RISE SUDDENLY BECAUSE OF A BIND IN THE LOAD.
- ▲ CAUTION: The electric motor is designed for intermittent service only. Extended use without cooling off periods will cause overheating resulting in motor damage. Maximum recommended continuous run time is three minutes.
- It is recommended that whenever the winch is not being used that it be unplugged from the power supply. The bridge is subject to damage caused by electrical storms or voltage surges if the winch is left plugged in when not in use.

CLUTCH OPERATION

- 1. The clutch lever provides a means for releasing a load without power while maintaining control of the speed and provides for free wheeling so that cable can be removed from the winch by hand. The clutch lever is spring loaded so that it returns to the engaged position when released. The lever will, however, remain in the free wheeling position if rotated completely forward to free wheel.
- In order to release a load without power, rotate the clutch lever slowly and carefully forward toward "Free Wheel." When the load begins to move, it can be controlled by the clutch lever. Careful, slow movement of the lever will provide smooth control of the load.
- WARNING: ALWAYS MAINTAIN CONTROL OF THE LOAD. ALLOWING EXCESS SPEED COULD RESULT IN WINCH DAMAGE AND SEVERE PERSONAL INJURY.
- Remember that the gear train and brake mechanism are completely disengaged in the "Free Wheel" position and in order to power the winch or hold a load in position, the lever must be allowed to return to the "Engaged Gears" position.

NOTE: It is not necessary to turn the clutch lever completely to the "Engaged Gears" position manually. The spring tension built into the winch provides adequate force on the clutch lever.

CAUTION: Never force clutch lever in either direction.

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AUXILIARY HANDLE

- 1. An emergency crank handle is provided for use in the event of a power failure. Remove the electrical power from the winch.
- WARNING: NEVER OPERATE THE WINCH ELECTRICALLY WITH THE EMERGENCY HANDLE IN POSITION.
- Remove the plastic plug from the side of the winch housing and insert the handle so that it completely engages with the drive shaft. The handle can be cranked in either direction with the clutch in the engaged position. To make cranking easier, the clutch can be placed in the free wheel position while holding onto the emergency handle.
- WARNING: IF THE CLUTCH IS PLACED IN FREE WHEEL FOR HAND CRANKING, BE SURE TO MAINTAIN A FIRM GRIP ON THE HANDLE AT ALL TIMES.

Because the emergency crank handle for models SA9000AC, SA9015AC, SA12000AC & SA12015AC attaches to the clutch side of the winch, it is equipped with a spring operated clip which will be depressed by the clutch handle in the free wheel position when cranking in a clockwise direction to retrieve the cable. This clip is a safety feature and will re-engage the clutch mechanism in the event that the operator loses control of the handle with a load on the winch.



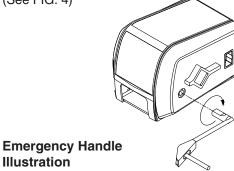


FIG. 4

- WARNING: EVEN WITH THIS SAFETY FEATURE THE HANDLE WILL STILL SPIN VIOLENTLY ONE OR TWO TURNS BEFORE RE-ENGAGING THE CLUTCH TO STOP THE WINCH. DO NOT LOSE CONTROL.
- 3. Always remove the handle from the winch after use and replace the plastic plug.

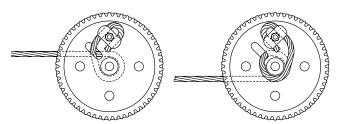
WINCH MAINTENANCE

For long life and trouble-free operation your winch should periodically be inspected for any required maintenance. This should be done at least once annually and more frequently in adverse conditions such as salt water areas or areas of extreme dust and dirt.

 Carefully inspect the winch cable for any kinks, frays or abnormal stiffness and replace at the first sign of this kind of damage. Go to Dutton-Lainson website: http://www.dutton-lainson.com/ts.php for trouble shooting manual, select winch model number and click on symptom "Cable Damage" for complete diagnoses and corrective action. Periodic lubrication with a light oil will improve the life of the cable. In order to replace the winch cable, it is necessary to remove the clutch handle, by removing the two clutch handle screws, and the four cover mounting bolts. Be sure that the power is disconnected from the housing and lift the housing off of the winch by gently stretching it open near the lower front corner. Rotate the winch reel so that you have access to the rope clamp. Remove the old cable and replace it with a new cable of the same size. Be sure that the cable passes under both sides of the rope clamp and that the clamp is tightened securely. NOTE: CABLE IS WOUND OVER THE TOP OF THE DRUM ON MODELS SA5000AC. SA5015AC AND SA7000AC, SA7015AC AND UNDER THE DRUM ON MODELS SA9000AC, SA9015AC AND SA12000AC, SA12015AC. SEE ATTACHMENT METHOD BELOW (FIG. 5).

CABLE ATTACHMENT METHODS

FIG. 5

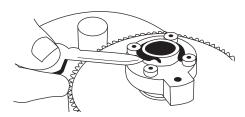


Model SA5000AC/SA5015AC Model SA7000AC/SA7015AC

Model SA9000AC/SA9015AC Model SA12000AC/12015AC

- 2. With the cover removed as described above, inspect the entire gear train and all drive shafts for any significant wear or loose bearing fits. Grease all of the gears on the inside of the winch base and apply a drop of oil on all of the bearings in the base. Also, very sparingly oil all of the bearings in the clutch mechanism and place a drop of oil on the roller clutch. Do not over lubricate these areas and do not use grease in the roller clutch. The clutch mechanism and the brake pads and brake disc must be kept clean and oil free.
- 3. Check the operation of the roller clutch. Carefully rotate the brake disc and observe the motor shaft. When the disc is turned clockwise the motor shaft should turn with it. When the disc is turned counterclockwise the motor shaft should not turn. Also, check all nuts, bolts, retaining rings, etc., to be sure that they are tight and secure.
- 4. If the clutch has been slipping and requires adjustment the following procedures should be used. The clutch is adjustable in ten degree increments. With a screwdriver and pliers, remove the end of the clutch spring from the hole in the winch base. The spring tension is quite high so be careful to maintain a firm grip on the spring. The O-ring should be rotated so that the cut out portions align with the lugs on the spring keeper. (See FIG. 6)

The ring can then be expanded with a pencil or similar object and the spring keeper can be lifted free from the clutch nut. Rotate the keeper clockwise 10 degrees and install on the next serration in the clutch nut. Reinstall O-ring and rotate slightly so that the cut outs are not in line with the lugs on the



O-Ring Illustration

FIG. 6

spring keeper and reinstall the clutch spring into the hole in the base. Adjustment of the clutch more than 10 degrees to 20 degrees should normally not be necessary. With only spring pressure (do not forcibly tighten the clutch mechanism) the spring lug on the spring keeper should come to rest at approximately the 2:30 o'clock position.(See FIG. 7)

Go to Dutton-Lainson website:

http://www.dutton-lainson.com/ts.php for trouble shooting manual, select winch model number and click on symptom "Motor runs but winch fails to pull cable" for complete diagnoses and corrective action.

 Check the pulley block and hook assembly (MODELS SA7000AC, SA7015AC AND SA12000AC, SA12015AC) to be sure that the pulley rotates freely on the bronze pulley spacer. Occasional greasing of these two items is recommended.

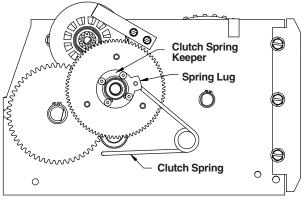
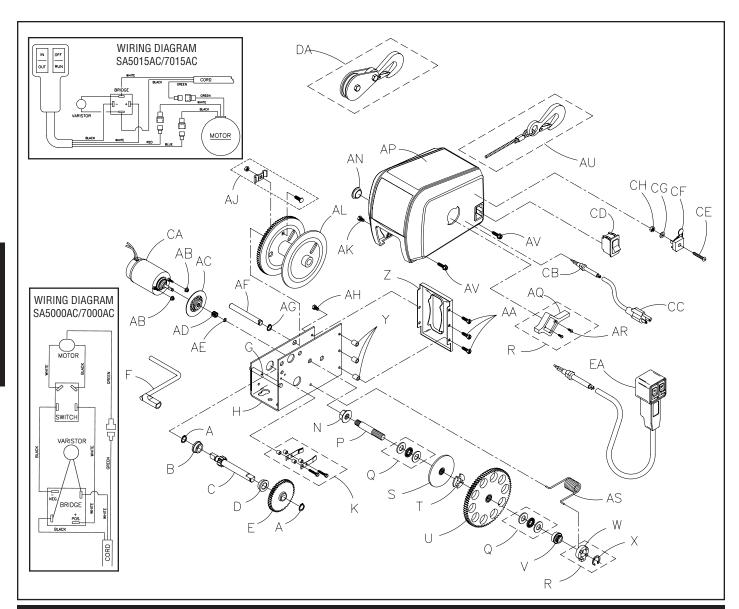


FIG. 7

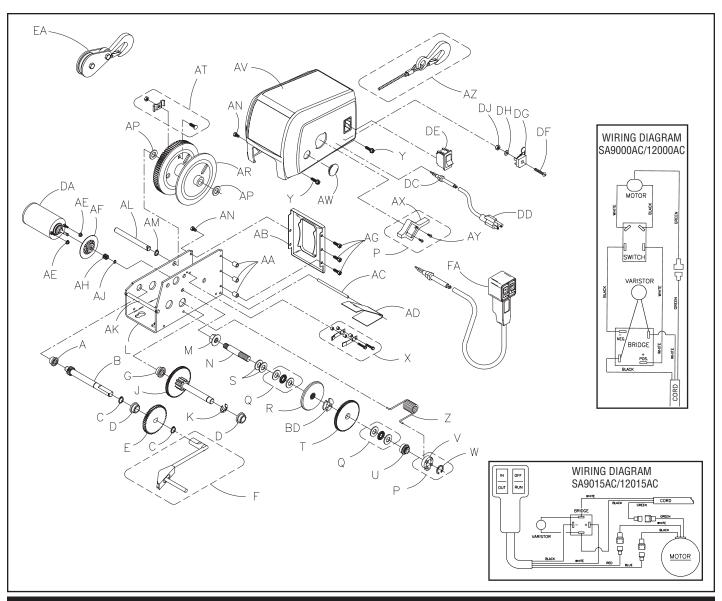
Clutch Spring Illustration

If you are having any problems with this electric winch, go to Dutton-Lainson website: http://www.dutton-lainson.com/ts.php to view trouble shooting manual. This manual will help diagnose most problems with this winch.



SA5000AC, SA5015AC, SA7000AC & SA7015AC PARTS LIST

Ref.	Part	Number	Ref.	Part	Number		Part	Number
Α	Retaining Ring (2)	205191	AA	Screw-1/4-20x5/8 (3)	205238	MO	TOR PARTS	
В	Bushing	204012	AB	Locknut, 10-32 (2)	205193	CA	Motor Assy	304921
C	Drive Shaft Assy	304813	AC	Brake Disc Assy	304407	CB	Strain Relief Bushing	204912
D	Bushing	204009	AD	Motor Pinion	404522	CC	Cord	205038
Ε	56T Gear	204703	AE	'E' Ring	205135	CC	GFCI Cord (opt.)	5240189
F	Handle Assy	304412	AF	Reel Shaft	404559	CD	Switch	204419
G	Base Spacer	404557	AG	Retaining Ring	204468	CE	Cap Screw	205180
Н	Base	404922	AH	Screw, 1/4-20x3/8 (2)	205337	CF	Bridge Assy	304426
K	Brake Spring Replacement Kit	5703210	AJ	Cable Clamp Kit	304617	CG	Washer	205194
N	Locknut, 7/16-20	205192	AK	Screw, 1/4-20x3/4 (2)	205338	CH	Hex Nut, 8-32	205195
Ρ	Clutch Stud	404517	AL	Reel Assy	304812		PULLEY BLOCK	
Q	Thrust Bearing Replacement Ki		AN	Cover Plug	204713	DA	Pulley Block & Hook (Complet	e)5240270
	(Includes Item X)	5703194	AP	Cover-SA5000AC/7000AC	404564		REMOTE SWITCH	
R	Clutch Handle Replacement Kit		AP	Cover-SA5015AC/7015AC	404582	EA	Switch Assy Dual	5240890
	(Inc. Items W, X, AQ & AR)	5703178	AP	Cover-(CSA) SA5000/SA7000	404595	EA	Single Switch Assy (opt.)	5240528
S	Clutch Gear Assy	306100	AP	Cover-(CSA) SA5015/SA7015	404994	EA	IN/OUT Rocker Switch only	204491
Τ	Finger Spring Washer	205200	AQ	Clutch Handle	204712	EA	OUT/IN Rocker Switch only	206435
U	120T Gear Assy	306102	AR	Screw, #4 (2)	205196	EA	OFF/RUN Rocker Switch only	204490
V	Clutch Handle Nut	404518	AS	Clutch Spring	204661			
W	Clutch Spring Keeper	204721	AU	Cable & Hook-3/16x20'	5240692	-		
Χ	'O' Ring	204770		(SA5000AC)		To order	replacement parts contact:	
Y Z	Front Plate Spacer (3) Front Plate	404562 404553	AU	Cable & Hook-3/16x50' (SA7000AC)	5240445		Lainson Company dlco.com	
_			AV	Screw ,1/4-20x1" (2)	205190	Tel:	800-569-6577 • Fax: 402-460-46	312
			AW	Top Decal (Not Shown)	206627	e-ma	ail: DLsales@dutton-lainson.com	
			AZ	Clutch Decal (Not Shown)	204731			



SA9000AC SA9015AC SA12000AC & SA12015AC PARTS

SASUUAC, S	AJU	ISAC,	3A 12000AC	α ΟΑΙ	2015	AC PARIS L	101
Part	Number	Ref	. Part	Number		MOTOR PARTS	
Bearing Housing Assy	304314	AA	Spacer (3)	404513	DA	Motor Assy	304921
	304304	AB	Front Plate	404511	DC	Strain Relief Bushing	206670
Retaining Ring (2)	205191	AC	Level Wind Pin	404516	DD	Electrical Cord	205038
Bushing (2)	204012	AD	Level Wind	204709	DD	GFCI Cord (opt.)	5240189
56T Gear	204703	AE	Nut, 10-32 Locknut (2)	205193	DE	Switch	204419
Aux. Handle Assy	5703079		Brake Disc Assy		DF	Screw – 8-32x1"	205180
Drive Shaft Bushing	304313	AG	Screw, 1/4-20x7/8 (3)		DG	Bridge Assy	304426
Housing Assy		AH	12T Pinion Gear	404522	DH	Washer	205194
Interm. Drive Shaft Assy	304814	AJ	"E" Ring	205135	DJ	Nut – 8-32	205195
"E" Ring	205116	AK	Base Spacer	404510		DIII I EV BI OCK	
Base	404921				FΛ		۵)52/0270
Nut, 7/16-20 Locknut	205192				LA	, , ,	6)3240210
Clutch Stud	404517		Screw, 1/4x20x1/2" (4)				
Clutch Handle Replacement Kit	5703178		Washer (2)				5240890
							5240528
	5703194						204491
							206435
					FA	OFF/RUN Rocker Switch only	204490
		AZ		5240478			
				5040450			•
Clutch Spring	204711	AZ		5240452			-
				005000	C man.	Desaies & duttorr lamson.com	
		RH	Giuten Decai (Not Snown)	204/31			
	Part Bearing Housing Assy Primary Drive Shaft Assy Retaining Ring (2) Bushing (2) 56T Gear Aux. Handle Assy Drive Shaft Bushing Housing Assy Interm. Drive Shaft Assy "E" Ring Base Nut, 7/16-20 Locknut Clutch Stud Clutch Handle Replacement Kit (Includes Items V, W, AX & AY)	Part Number Bearing Housing Assy 304314 Primary Drive Shaft Assy 304304 Retaining Ring (2) 205191 Bushing (2) 204012 56T Gear 204703 Aux. Handle Assy 5703079 Drive Shaft Bushing 304313 Housing Assy Interm. Drive Shaft Assy Interm. Drive Shaft Assy 304814 "E" Ring 205116 Base 404921 Nut, 7/16-20 Locknut 205192 Clutch Stud 404517 Clutch Handle Replacement Kit 5703178 (Includes Items V, W, AX & AY) Thrust Bearing Replacement Kit 5703194 (Includes Item W, O-Ring) Clutch Gear Assy 306100 Washer (2) 204360 84T Gear Assy 306101 Clutch Handle Nut 404518 Clutch Spring Keeper 204770 Brake Spring Replacement Kit 5703160 Screw, 1/4-20x1" (2) 205190	Part Number Ref Bearing Housing Assy 304314 AA Primary Drive Shaft Assy 304304 AB Retaining Ring (2) 205191 AC Bushing (2) 204012 AD 56T Gear 204703 AE Aux. Handle Assy 5703079 AF Drive Shaft Bushing 304313 AG Housing Assy AH AH Interm. Drive Shaft Assy 304814 AJ "E" Ring 205116 AK Base 404921 AL Nut, 7/16-20 Locknut 205192 AM Clutch Stud 404517 AN Clutch Handle Replacement Kit 5703178 AP (Includes Items V, W, AX & AY) AR AT Thrust Bearing Replacement Kit 5703194 AT (Includes Item W, O-Ring) AV Clutch Gear Assy 306100 AV Washer (2) 204360 AV 84T Gear Assy 306101 AV <t< td=""><td> Part</td><td> Part Number Bearing Housing Assy 304314 AA Spacer (3) 404513 </td><td> Part Number Ref. Part Number Bearing Housing Assy 304314 AA Spacer (3) 404513 DA Primary Drive Shaft Assy 304304 AB Front Plate 404511 DC Retaining Ring (2) 205191 AC Level Wind Pin 404516 DD Bushing (2) 204012 AD Level Wind 204709 DD Bushing (2) 204012 AD Level Wind 204709 DD S6T Gear 204703 AE Nut, 10-32 Locknut (2) 205193 DE AUX. Handle Assy 5703079 AF Brake Disc Assy 304422 DF Drive Shaft Bushing 304313 AG Screw, 1/4-20x7/8 (3) 205242 DG DG DG DG DG DG DG D</td><td> Bearing Housing Assy 304314</td></t<>	Part	Part Number Bearing Housing Assy 304314 AA Spacer (3) 404513	Part Number Ref. Part Number Bearing Housing Assy 304314 AA Spacer (3) 404513 DA Primary Drive Shaft Assy 304304 AB Front Plate 404511 DC Retaining Ring (2) 205191 AC Level Wind Pin 404516 DD Bushing (2) 204012 AD Level Wind 204709 DD Bushing (2) 204012 AD Level Wind 204709 DD S6T Gear 204703 AE Nut, 10-32 Locknut (2) 205193 DE AUX. Handle Assy 5703079 AF Brake Disc Assy 304422 DF Drive Shaft Bushing 304313 AG Screw, 1/4-20x7/8 (3) 205242 DG DG DG DG DG DG DG D	Bearing Housing Assy 304314



DECLARATION OF CONFORMITY - Dutton-Lainson Company, Hastings, NE 68902-0729 U.S.A. manufactures and declares that the winch identified above fulfills all relevant provisions of the Directive 2006/42/EC, and Supply of Machinery (Safety) Regulations 2008. The technical file may be obtained from the persons listed below

> Hastings, NE USA January 25, 2022

Director of Engineering **Dutton-Lainson Company** Jack Singleton Eurowarehouse BV De Amstel 11 8253PC Dronten The Netherlands

NOTES					
WINCH MODEL NUMBER: DATE PURCHASED:					



A Dependable Company Since 1886 **DUTTON-LAINSON COMPANY**

Hastings, NE 68902 U.S.A • Tel 402-462-4141 • Fax 402-460-4612

E-mail dlsales@dutton-lainson.com • Web Site www.dutton-lainson.com

MADE IN

ISO 9001 Certified Q.M.S.

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