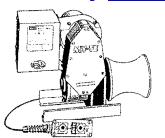
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Model 30-12, 30-12/FS



OF 12V DC Capstan Winch-Hoist Parts List, Wiring and Mounting

1600# Double Line Lift Capacity

READ THIS BEFORE OPERATING UNIT MAINTENANCE:

INSTALLATION:

Mount on clean, flat surface. Bolt down with 4-1/2" bolts, grade 5 or better. For ease of service, we do not recommend welding frame to surface.

Connect a battery cable from the positive battery post or 12V DC power supply to the positive post on the winch control box (p/n 281750) using the boot provided. Connect a battery cable from the negative battery post to the grounding post on the winch frame. The negative cable may not be required when the winch and the battery or power supply are connected to a common ground. Use #4 battery cable or larger for cable runs up to 10'. Use #2 battery cable or larger for cable runs from 11-25'. For vehicle mounted applications, a cab mounted disconnect switch may be used to disconnect power to the winch when it is not in use. This will prevent accidental engagement of the winch motor during travel. Contact My-te for more information.

ROPE USAGE AND SAFETY:

The capstan drum winch-hoist is designed to be used with rope of 1/2" to 3/4" diameter to winch or hoist loads requiring up to 800 Lbs. of single line pull. Polyester or Dacron rope makes a good rope choice due to its resistance to heat generated by drum friction. Do not use wire rope. Wrap the rope around the drum placing the load line closest to the gear box. To hoist or retrieve the load, the operator must pull the fall line (the unloaded end of the rope) from the drum by hand as the drum rotates. To lower the load, carefully pay the fall line back onto the drum allowing the wraps of rope to slip, thus lowering the load. An alternate method of lowering a load is to operate the winch-hoist in the lifting direction while paying rope back onto the drum.

The proper number of wraps is determined by feel. Take time to become familiar with the capstan's operation. Feeding off and paying back of the fall line should require minimal effort. Use at least 3 wraps of rope on the drum. Heavier loads may require 4 wraps. Do not place so many wraps on the drum as to allow the rope to ride over the end of the drum. If the load requires excessive operator effort or more than 4 wraps of rope on the drum, a two part line and traveling sheave block must be used. If this does not alleviate the problem, check the weight of the load and be sure rope travel and load path are unrestricted. Do not overload the winch-hoist!

OPERATION:

Extreme caution should be exercised when operating any winching or hoisting equipment as loss of control over the load may result in property damage, injury or death. Operation of such equipment should only be performed by qualified personnel.

The 30-12 and 30-12/FS are designed for intermittent operation. My-te recommends a 25% duty cycle. For optimum motor and control life, do not exceed 15 minutes of run time per hour at full load.

To prevent shock loading, slowly remove slack from rope before full load is moved.

Hand held or foot operated pendant provides forward and reverse control through winch-hoist control solenoids. Pulling power is the same in either direction.

If the unit is installed outside, a cover may be provided to protect motor and controls from the inclement weather. Do not allow the cover to interfere with the capstan drum.

Frequent inspection of the winch including battery cables and pendant should be made to detect any damage that may affect proper operation of the unit.

A periodic inspection should include a check of all hardware to ensure that fasteners have not worked loose. This includes the locking collar on the 218010 flangette bearing assembly, as well as the capstan drum set screws. Check the gear box oil and bearing lubrication as described in the attached Lubrication Guide. Check electrical connections for corrosion.

TROUBLE SHOOTING AND REMEDIES:

If the unit does not run, check power supply. Be sure correct voltage is being applied. Verify that the winch-hoist is well grounded to the 12V DC power supply.

Check all connections in the winch-hoist control box. Check connections in the hand held or foot operated pendant.

Check for damage to the battery cables and pendant cord.

If a cab mounted cut-off switch or circuit breaker/fuse has been installed in the power supply to the winch-hoist, check for proper wiring and operation of these components.

If the control solenoid(s) click(s) but the winch-hoist does not run, determine whether the problem is in the motor or the winch-hoist control panel. This may be done by checking for 12V DC voltage at the motor terminals on the outboard end of the motor when the pendant switch is operated. Operating the pendant in the opposite direction should reverse polarity of the voltage. Proper voltage at the motor indicates that the problem is most likely in the motor.

Motor brushes may be replaced. Contact the factory, your My-te dealer or a motor repair shop for assistance. In order to remove the motor, the 118081 pinion gear must first be removed.

WARRANTY:

All My-te winch-hoists are designed for material handling use only. My-te Products, Inc. warrants each My-te winch-hoist to be free of defects in material and workmanship for a period of one year This warranty does not coverabuse, neglect or use above or beyond rated capacity and duty cycle. Warranty coverage includes shipping charges, one way, by standard ground service. Warranty does not cover cost of installation or removal of winch-hoist from service or loss due to downtime or time out of service. My-te will not reimburse unauthorized warranty expense. The final responsibility for fit of winch-hoist with application rests with end user. The warranty is void if the winch-hoist is altered or parts substituted. This warranty is limited to repair or replacement at manufacturers factory or a point designated by the manufacturer. Inspection by the manufacturer will determine manufacturers liability.

All MY-TE WINCH-HOISTS ARE DESIGNED FOR MATERIAL HANDLING USE ONLY.

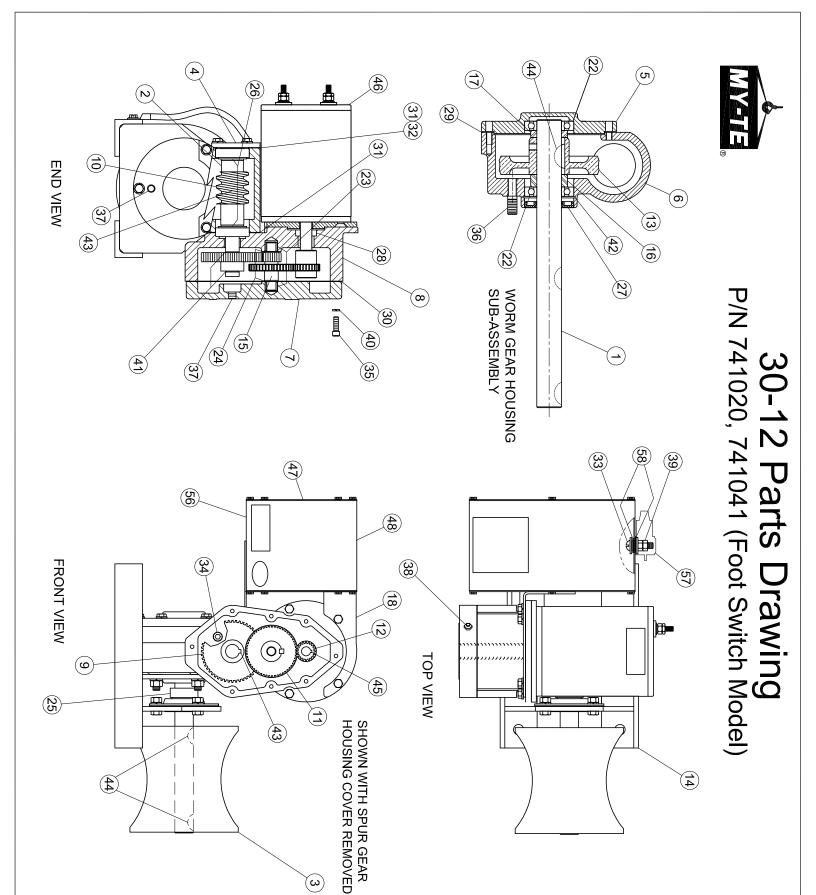
30-12 Parts List

COMMON FASTENERS AND OTHER ITEMS NOT LISTED HERE ARE AVAILABLE THROUGH MY-TE PARTS DEPT OR YOUR MY-TE DEALER.

PART No.

		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	TEM
		2	2	_	1	_	1	1	_	1	1	_	1	1	1	1	1	1	1	1	1	QTY
		184060	184050	182032	171310	171280	171250	148051	118160	118081	118010	113010	112010	088170	088160	088090	082011	081510	068080	058010	052621	PART No.
		Buss Bar,Sol'd-Short Angle	Buss Bar,Sol'd-Long Angle	Brace, Control Box	Spacer, Thin Main Shaft	Spacer, Thick Main Shaft	Spacer, Idler Gear	Frame Assy, Capstan	Worm Gear Assy	Pinion Assy/SS	Idler Gear Assy/Shaft 10-12	Worm	Spur Gear	Housing, Spur Gear/Brg	Cover, Spur Gear Hsg/Brg	Housing, Worm Gear/Studs	Cover, WGH	Cap, Worm Gear Hsg	Capstan Drum Assy	Worm Shaft Assy	Main Shaft, Capstan	DESCRIPTION
		40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	ITEM
		8	2	_	2	з	8	4	_	2	2	_	1	1	1	2	1	2	2	2	1	QTY
		287041	286560	286260	286250	285750	283080	283020	281750	241540	241530	241521	241510	241020	241010	218020	218010	212010	211060	211010	184070	PART No.
		Lockwasher, Split 1/4 HC	Nut, 5/16-18 Brass	Oil Plug, Valved 1/8 NPT	Oil Plug, 1/8 NPT	Stud,WGH 3/8-16 x 1-1/4	Screw,1/4-20 x 1-1/4 SHCS	Screw,5/16-18 x 1 SHCS	Screw 5/16-18 x 1-1/4 Brass	Gasket,Worm Hsg Cap .010	Gasket,Worm Hsg Cap 1/32	Gasket,Spur Gear Hsg	Gasket,Worm Gear Hsg	Oil Seal, Motor Shaft	Oil Seal, Main Shaft	Bearing Assy,Worm Shaft	Bearing Assy, Flangette	Thrust Washer	Bearing, Needle SGH	Bearing, Main Shaft	Buss Bar,Sol'd-U Shaped	DESCRIPTION
Г		(7)	51	50e	50d	50c	50b	50a	50		* *	49	48	47		46	45	44	43	42	41	ITEM
	53	- K3																				
	53 2	52 1	1)e 1)d 2)c 2)b 1	a 					3 1		1	3 1	5 1	1 3	3 2	2 1	1 2	:M QTY

2				
Snap Ring Worm Shaft	54	٦	543030	Ground Wire,3 Wire Std
Snap Ring WGH	55	1	552010	Grommet, Rubber-4-Hole
Key, Worm Shaft	56	_	552060	Strain Relief, 3 Wire Sw Cord
Key, Main Shaft	57	_	552070	Boot, 12V Control Box Post
Key, Pinion 12V	58	2	552581	Insulator, 12v-Shldr Washer
Motor Assy 12V /End Plate	59	2	552620	Boot, Insulating-Motor Leads
Brush Assy, 12V Motor	60	_	561512	Solenoid, 12VDC SPST
Panel, Plain	61	2	561532	Solenoid, 12VDC SPDT
Control Enclosure w/Brkt&Cvr	62	1	090885	Foot Switch Assy -Optional
Panel Assy,w/Comp/Brace				
Complete Control Box Assy,		1	621020	Decal-Oil Level
12V/Components/HandSwitch		1	621031	Decal, 12V Motor
Hand Switch Assy 3 Wire		1	621190	Decal, Post - 12V Units
Gasket, Switch Hsg		1	621250	Decal-Drum Warning
Plate, Switch Cover		1	621260	Decal-Safety 3 x 3
Switch, Pushbutton 5 Term		_	621270	Decal-Capacity & SN
Guard, Pushbutton		1	621290	Decal, Made in USA
Strain Relief, Switch Hsg				
Cable,Battery-Long 17"			248022	Seal & Gasket Kit-New Cover
Cable,Battery-Short				
Cable, Battery-Long				

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