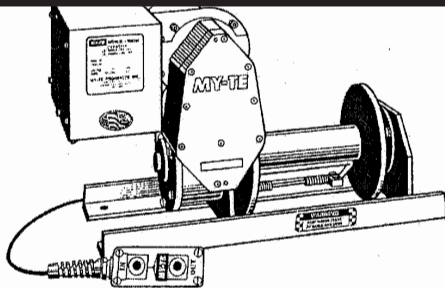




OPERATION MANUAL

(800) 878-7305 Rentals@RentLGH.com RentLGH.com



**2000# Double
Line Lift Capacity**



Winch and Hoist

OPERATION and MAINTENANCE

OF

All 115 Volt AC Winches

Main Parts List for 100AB, 150AB

Used with Supplement Parts List for 800B

READ THIS BEFORE OPERATING UNIT

INSTALLATION:

Mount on clean, flat surface. Bolt down with 6-1/2" bolts. For ease of service, we do not recommend welding frame to surface.

Unit should be plugged into a 115 Volt A.C. grounded receptacle. Use of extension cords may cause power loss at full capacity. Make sure the voltage and type of current stamped on the name plate is used. The 115 Volt units require 19 amps. service for maximum lift, and uses a manual reset circuit breaker rated at 20 amps.

For additional safety, a power disconnect may be installed to provide a means of cutting power in place of using the power cord to disconnect.

Before the unit is wall mounted, or mounted upside down, remove P/N 286260 Oil Plug Valve and exchange with P/N 286250 Oil Plug located below the control box on the worm gear housing cover.

CABLE CONNECTION AND CABLE SAFETY:

Maintain at least 4 wraps of cable on the drum at the maximum reach. The drum cable clamp is not designed to hold load. Inspect the winch, sheaves and cable frequently. Especially watch for frayed cable, loose parts and worn components which may be hazardous. Use the correct size and length of cable for the job. We recommend use of 1/4" cable for most jobs up to 2000 lb. double line. Always provide a 5 to 1 safety factor.

The cable tensioner is designed to prevent the cable from riding over the drum flanges and to maintain a constant pressure against the cable to keep it from binding.

When installing the cable, cable should be placed between the drum and the tensioner, bringing cable around drum to hold in flange. Push cable through hole and secure screws so that they do not extend through the drum flange and interfere with cable tensioner. Be sure cable is wrapped as evenly as possible on drum.

For best results, use only enough cable to meet specific job requirements. Worn cable is dangerous. Replace cable that has become frayed, broken, kinked or abraded.

OPERATION:

These units are designed for intermittent duty operation. Mfg. recommends a 25% duty cycle. That is, for good motor life, usage of 15 minutes out of one hour is preferable.

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

The remote control switch is a special 4 wire control which is part of the dynamic brake control system. Changing the switch to some other type will eliminate the braking action. Use only factory provided switch.

Remote switch provides forward and reverse control through a 24 volt transformer. Lifting power is the same in either direction.

**MY-TE WINCH-HOISTS ARE DESIGNED
FOR MATERIAL HANDLING USAGE.**

MAINTENANCE:

Check all sheaves, rollers and areas of friction. Be sure they turn freely. Misalignment of cable, dragging sheaves, or rollers will consume a great amount of power.

If the unit is installed outside, be sure to provide a cover to protect motor and controls from the weather. When the unit is in operation be sure cover is completely removed.

Periodic inspection of switch and power cord should be made to detect any damage or cuts which would require replacement.

The gearbox oil is shared between the spur and worm gear housings. The factory-installed oil is a Shell product; Omala 68. It is an EP type industrial gear oil, ISO Grade 68. If this is not available, an SAE 20 weight, non-detergent motor oil is acceptable. Standard capacity is 18 ounces.

TROUBLE SHOOTING AND REMEDIES:

CAUTION: BEFORE SERVICING OR INSPECTING UNIT FOR PROBLEMS BE SURE TO DISCONNECT POWER.

If the unit does not run, check power supply. Be sure correct voltage and frequency are being used. Remove power plug and remove control box cover. Visually inspect for loose wires, stuck contacts on relays, and screws which may have worked loose.

If the unit runs but braking is not instantaneous, check resistors and motor brush condition. Bad resistors will affect the dynamic braking. Check resistors for cracked porcelain and exposed wire. Replace as needed. To check resistors electrically, test individually with a continuity test. On ohmeter, each resistor should have a value of 4 ohms and together a resistance of 2 ohms.

Care should be taken to keep the armature in good condition which may be accomplished by lightly rubbing commutator with a rubstone.

Check brushes to see that they seat on the commutator and are not cracked or badly worn. Replace as needed. Brush springs should provide enough tension to keep brushes seated.

If the unit does not operate properly after the above remedies, contact a qualified electrician or the factory.

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 cover abuse, 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 manufacturer's factory or a point designated by the manufacturer. Inspection by the manufacturer will determine manufacturer's liability.

My-te Products, Inc.

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03/25/2021

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Information for My-te Winch-Hoists With Option # 771550 Arc Suppression & E-Stop Control

The 771550 Option is a modification of My-te's standard winch-hoist control. It is designed to be used on any 120 VAC My-te winch with a series wound universal motor. The control panel, enclosure and pendant replace the standard winch controls and may be provided as a factory installed option or field installed on existing My-te winch-hoists. The benefit of this control is the improved service life of the motor start relays and braking resistors as well as enhanced operator safety.

The arc suppression feature of the control adds a short delay to the start of the motor following actuation of the up or down buttons on the pendant. For optimum service life and performance, avoid rapid cycling/reversing of the motor when spotting or inching a load into position. A short pause (1-2 seconds) between motor starts helps prevent overheating of the braking resistors. The emergency stop feature allows the operator to cut power to the motor and engage the disk brake by depressing the red mushroom button on the pendant. To resume normal operation following an emergency stop, twist the button clockwise and release it. *The machine should be serviced following any abnormal operation.*

Warning: Read all information carefully and test the E-stop function during frequent and periodic operation and maintenance procedures.

To install the new control and enclosure on an existing My-te winch-hoist, the existing enclosure must be removed first. The attached drawings, 'Installation of E-Stop/Arc Suppression Control' may be used in conjunction with the instructions below.

- 1) Disconnect power to the winch-hoist.
- 2) Remove the existing enclosure cover. The cover is secured with 6 small sheet metal screws.
- 3) Disconnect the Black, Blue, Red and Yellow motor leads from the relay terminals on the control panel. Disconnect the B1 & B2 brake leads by pulling the insulated male spade terminals from the insulated female receptacles. See the attached drawing: Removal of Existing Control.
- 4) The 771550 part number includes a new line cord. However, if the power supply cord will be reused, or the machine is hard wired to building power, remove the service/line cord leads from the control panel.
- 5) Release any strain reliefs and completely remove the motor/brake (and power) cord from the control enclosure. The strain relief is removed by compressing the two halves and pulling it from the enclosure.
- 6) Remove the control enclosure by removing the 4: 1/4-20 screws which secure it to the winch-hoist. Save the hardware.

**Information for
My-te Winch-Hoists With
Option # 771550 Arc Suppression & E-Stop Control**

Installation of the new control enclosure is the reverse of the removal procedure.

- 7) Install the new enclosure onto the winch-hoist using the same mounting holes and hardware that secured the existing control enclosure. If the enclosure has been provided with a new serial number decal, be sure the number matches the serial number of the winch. The number is stamped into the spur gear housing cover. Install the decal as shown on the attached image.
- 8) Remove the enclosure cover. The cover is secured with 6 small sheet metal screws.
- 9) Cut the pink insulated terminals from the brake leads then route the motor/brake leads through the spring portion of the strain relief provided. Slide the spring up the wires to allow 8-10" of all 6 leads to pass through the mounted portion of the strain relief and into the control enclosure. Replace the plastic spring, but do not tighten it at this time. Re-install the insulated brake wire terminals using the two new ones provided. If the line/service cord leads were removed in previous steps, route them through the enclosure as well.
- 10) Reconnect the brake leads to the B1 & B2 insulated spade terminals. They are not polarity sensitive so the connections are interchangeable.
- 11) Reconnect the motor leads to lower 4 terminals on the terminal strip which is mounted to the transformer in the center of the control. Match the wire colors as shown in detail on the drawing 'Wiring Diagram: 771550, 742022'. The wire colors will also correspond to the mating wire on the terminal block.
- 12) Reconnect the line/service cord leads if the original line/service cord is being reused.
- 13) Verify that all connections have been securely made and there are no loose wires.
- 14) Tighten the plastic spring portion of the strain relief(s). The motor, brake and line cord leads should have slack inside the enclosure and should not be pulled taught.
- 15) Reinstall the enclosure cover. Use care to prevent pinching or piercing wires with the cover and cover screws.
- 16) Test the winch by running it in both directions. Test the E-stop button in both directions by depressing it while the winch is running. The winch should stop immediately. Reset the button by twisting it clockwise and releasing it. The E-stop feature should be periodically tested during normal operational tests throughout the life of the machine.

Please contact your dealer or My-te Products with any questions. For best results, provide winch-hoist model/part number and serial number when technical assistance or replacement parts are needed.

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**Information for
My-te Winch-Hoists With
Option # 771550 Arc Suppression & E-Stop Control**



Serial Number Decal Location