

2500 LB. Double Line Lift Capacity

ALL 12 VOLT DC WINCHES

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.

To wire unit to power, connect one battery cable from positive post on winch control box to positive side of power source. Connect the other battery cable to the negative side. Negative cable may not be necessary when winch and battery are attached to common ground. Use #4 battery cable for operations with 10 feet or less between winch and battery. Use #2 fore more than 10 feet.

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 $\frac{1}{4}$ " cable for most jobs up to 2500 lb. 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 under cable clamp. Do not tighten cable clamp screws so that they 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:

CAUTION: DO NOT REVERSE ROTATION INSTANTLY. Winch drum should be allowed to coast to complete stop before reversing rotation.

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.

For no load unwinding of cable, turn drum in either direction, by hand, to free clutch dogs before pulling on clutch handle.

Do not attempt to disengage the clutch with a load on the winch.

Remote switch provides forward and reverse control. Lifting power is the same in either direction. For additional safety, a power disconnect may be installed to provide a means of cutting power in place of using the battery cable to disconnect.

Do not hammer on motor as it may break the magnets in motor.

MAINTENANCE:

Check all sheaves, rollers and areas of friction. Be sure they turn free. 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 gear case is filled at the factory with one pint of Shell Omala #68 weight oil. Check at least every 6 months and, if necessary, fill to oil level plug with a comparable weight, non-detergent oil. The oil relief valve, P/N 286260, allows for release of oil pressure to prevent damage to seals.

TROUBLE SHOOTING AND REMEDIES:

If the unit runs free in one direction, but binds in the other direction, loosen lock collar on outboard drum shaft bearing. Run winch in free direction a couple of turns. Take hold of drum and hold in the direction of the outboard bearing and while holding, tighten bearing lock collar. This re-setting eliminates friction between worm and worm gear due to excessive end play of main shaft.

If the unit runs, but does not pull capacity, be sure battery leads are clean and tight. Check for good clean ground connection at winch. Check battery for charge. Without load, run motor in both directions. If motor pulls hard in one direction, check for and adjust main shaft end play as in previous instruction.

If the unit does not run but solenoids click, check all connections. Be sure there is full power from battery to winch. This condition may indicate a faulty motor.

If the solenoids do not click, be sure battery cable connections are intact. Open control box and remove switch wires. Manually connect a test wire from any solenoid small top post to positive battery connection. If unit operates, problem is in switch. If unit does not run, this could be a faulty motor.

To check the motor, remove the brush cover and inspect brushes to see that they seat on the commutator and are not cracked or badly worn. Replace as needed. Brush springs should provide a good tension to help keep brushes seated.

To run motor without wiring connected, remove the two leads that come from the electrical panel and are connected to the motor. Disconnect ground and positive leads from unit. Connect positive battery cable to one motor post, and the negative to the other motor post (Caution -This will cause an arc). Be careful that the power leads do not touch the motor housing. If motor runs okay, the problem would be in the panel or switch. If possible to check amperage, the normal draw would be 10 amps.

If motor shows high amperage draw (but not a complete short), remove spur gear housing cover. Remove idler gear and try motor again to determine whether drag is in motor or winch. If drag is in the winch, check for excess end play or bent main shaft. If drag is in motor, the usual checks for shorts should be made. If no shorts are found, check motor bearings for bind.

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

WARRANTY:

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. Warranty on component parts is determined by the manufacturers of those components. This warranty is void if the Winch is altered or parts are 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 the manufacturers liability.

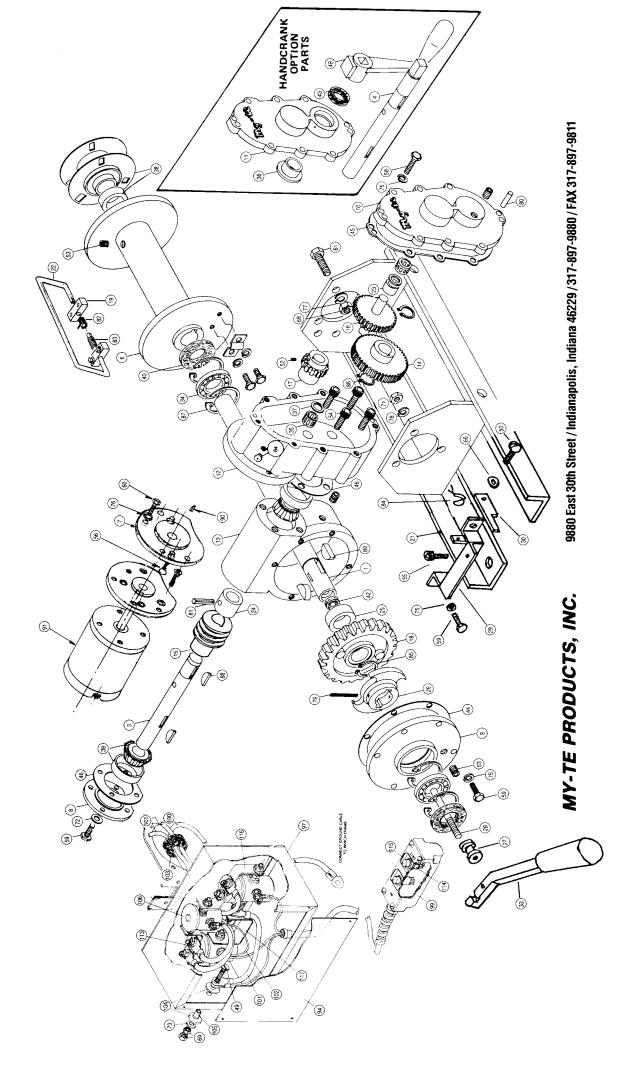
MY-TE WINCH-HOISTS ARE DESIGNED FOR MATERIAL HANDLING USAGE ONLY.



12 Volt Battery Power Parts Diagram

This drawing illustrates the clutch model.

Any no-clutch model uses part no. 118160 in place of P/N
118150, 052530 in place of 052510, and 171310 spacer. P/N
181510, 181520, 181580, 181590, 181620, 188080, 241030, 281530, 283030, 286750, 311260, 321110, are deleted.



MINIMUM ORDER — \$10.00

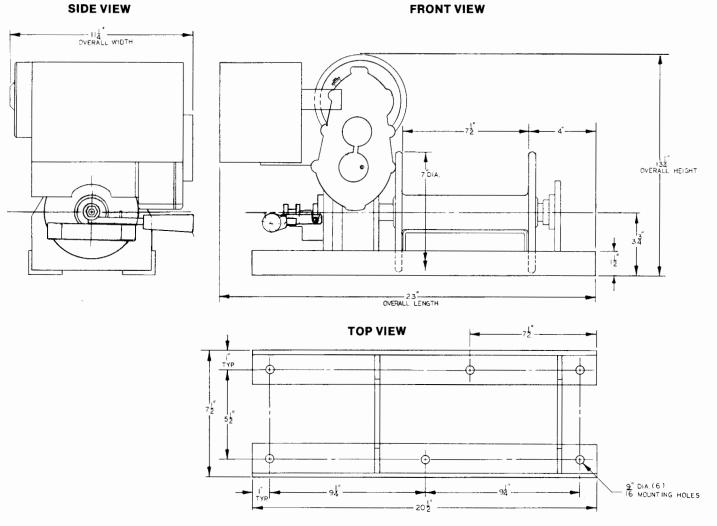
MY-TE DC STANDARD WINCH & HOIST UNITS

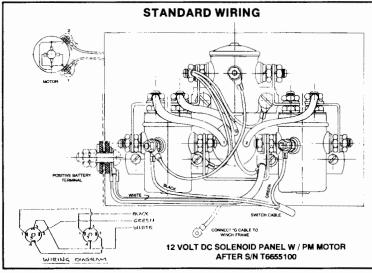
To insure receiving correct part, always give serial number and model number of winch & hoist unit.

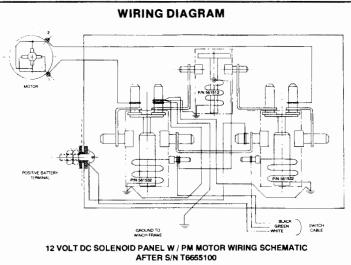
| 110 | 170 | 1 | | 100 | č |
|--|---------------------|--------|------------------------------------|-------------|--|
| | ; | Š. | Used Part Name/Description | € 2 | Used Part Name/Description |
| 1 052510 1 Main Shaft — Long-w/Clutch | w/Clutch 39 | 218020 | 2 Bearing Assy., Worm Shaft | 74 287030 | 1 Lockwasher, Int. Str. #10 |
| 052520 Main Shaft — Short-w/Clutch (20-12) | w/Clutch (20-12) 40 | 241010 | 2 Oil Seal, Main Shaft | 75 287040 | 20 Lockwasher, Split 1/4 |
| 3 058010 1 Worm Shaft Assy. w/Spacer/Pin | //Spacer/Pin 41 | 241020 | 1 Oil Seal, Motor Shaft | 76 287050 | 12 Lockwasher, Solenoid Mtg. Int. 1/4 |
| 4 058020 Worm Shaft Assy. w/Spacer/Pin, HC | /Spacer/Pin, HC 42 | 241030 | 1 Oil Seal, Shifter Rod | 77 287060 | 5 Lockwasher, Flangette %6 |
| 068060 Drum Assy., Short w/Hdw. (20-12) | v/Hdw. (20-12) 43 | 241040 | Oil Seal, Hand Crank | 78 287070 | 3 Lockwasher, W.G.H. % |
| 6 068140 1 Drum Assy., Cast w/Hdw. | /Hdw. 44 | 241510 | 1 Gasket, Worm Gear Housing | 79 311260 | Spring Pin, Clutch Shifter |
| 7 081030 1 Adapter, Motor | 45 | 241520 | 1 Gasket, Spur Gear Housing | 80 311270 | Spring Pin, Spur Gear Hsg. |
| 8 081510 1 Cap, Worm Gear Housing | ousing 46 | 241530 | 2 Gasket, End Cap 1/32 | 81 311280 | Spring Pin, Worm Spacer |
| 9 082010 1 Cover, Worm Gear Housing | * Housing | 241540 | 1 Gasket, End Cap .010 | 82 321080 | 1 Spring, Cable Ten. Bar L.H. |
| 10 088010 1 Cover, Spur Gear Hsg. w/Bearing | sg. w/Bearing 48 | 251030 | Hand Crank Machined | 83 321090 | Spring, Cable Ten. Bar R.H. |
| 11 088030 Cover, Spur Gear Hsg. w/Bearing, HC | g. w/Bearing, HC | 281020 | 1 Screw, Brace 6-32x1/2 RHMS | 84 321110 | 1 Spring, Clutch Shifter |
| 12 088050 1 Housing, Spur Gear, w/Bearing | , w/Bearing 50 | 281530 | 1 Screw, Brace 10-32x% RHMS | 85 321510 | Snap Ring, Main Shaft |
| 13 088090 1 Housing, Worm Gear, w/Studs | ar, w/Studs 49 | 281750 | 1 Screw, Post 5/16x11/4 RHMS | 86 321520 | 2 Snap Ring, Worm Shaft |
| 14 112010 1 Spur Gear | 51 | 282250 | 8 Screw, Solenoid Mtg. 1/4-20x1/2 | 87 321530 | 4 Snap Ring, Worm Gear Hsg. |
| 15 113010 1 Worm | 52 | 282750 | 1 Set Screw, Pinion 10x3/16 SSS | 88 351020 | 2 Key, Worm Shaft |
| 16 118010 1 Idler Gear Assy. w/Shaft | shaft 53 | 282770 | 2 Set Screw, Drum 5/16-18 SSS | 89 351030 | 4 Key, Main Shaft |
| 17 118081 1 Pinion Assy. w/S.S. | 54 | 283020 | 4 Screw, Spur/WGH. 5/16-18x1 SHCS | 90 351050 | 1 Key, Pinion |
| 18 118150 1 Worm Gear Assy. | 55 | 283030 | 2 Screw, Clutch Pivot #10x% SHCS | 91 418143 | Motor Assy., Perm. Mag. w/Mtg. Plate |
| 19 143750 2 Block, Cable Tensioner | ner 56 | 283250 | 2 Screw, Motor Adptr. 5/16x3/4 FHS | 94 512020 | 1 Panel, Plain |
| * 144020 1 Tensioner Bar Only - Std. | - Std. 57 | 283750 | 2 Screw, Cable Clamp 1/4x% HHCS | 97 528010 | Ctrl. Box Assy. w/Brkt./Pln.Pnl. |
| | (20-12) 58 | 283760 | 8 Screw, Cover 1/4-20x3/4 HHCS | 95 528251 | Panel Assy. w/Comp. w/o Sw. |
| - | 69 | 283770 | 14 Screw, Wrm Gr Hsg 1/4x/8 HHCS | 99 538121 | 1 Hand Sw. Assy., 3W-10' w/Term |
| _ | Std. w/Hdw. 60 | 283790 | 4 Screw, Mtr Mtg 1/4-20x11/4 HHCS | 100 542030 | Cable, Long Battery w/Termls. |
| 171250 1 | 61 | 284020 | 3 Screw, Frame/Flg 5/16x3/4 HHCS | 101 542040 | 5 Cable, Short Battery w/Termls. |
| 171270 1 | * 1"x1.140 | 285750 | 3 Stud, W.G.H. %-16x11/4 | 102 542510 | 2 Wire, Solenoid Jumper |
| 25 171280 1 Spacer, Worm Gear Hsg-Thick | Hsg-Thick 63 | 286250 | 2 Oil Plug 1/8 NPT | 103 552010 | Grommet, Rubber 4 Hole (12V) |
| 26 181510 1 Clutch, Machined | 64 | 286260 | 1 Valve, Oil Plug 1/8 NPT | 104 552580 | 2 Insulator, Flat Fiber Washer |
| 27 181520 1 Spool, Clutch Shifter | | 286510 | 1 Nut, Resistor/Brace 6-32 Hex | 105 552590 | Insulator, Fiber Bushing |
| 28 181580 1 Clutch Shaft | * | 286530 | 6 Nut, Solenoid TermSmall 10-32 | 106 561512 | Solenoid, 12V Tested w/Hdw. |
| 29 181590 1 Bracket, Clutch Shifter | ter 67 | 286540 | 12 Nut, Solenoid Mtg 1/4-20 Hex | 113 561532 | 2 Solenoid, 12v SPDT |
| 30 181620 1 Locking Tab, Clutch | 89 | 286550 | 6 . Nut, Flangette %6-18 Hex | 114 531140 | 2 Push Button, 5T |
| 31 182010 1 Brace, Control Box | 69 | 286560 | 2 Nut, Power Post 5/16-18 Hex | 115 532550 | 2 Guard, Push Button |
| 2 | 70 | 286580 | 8 Nut, Solenoid Term-Large 5/16-24 | 116 18 4060 | 2 Solenoid Angled Buss Bar |
| 188080 | 71 | 286590 | 3 Nut, W.G.H. %-16 Hex | 117 18 4070 | 1 Double End Buss Bar |
| 34 211010 2 Bearing Main Shaft | 99 | 286750 | 2 Washer, Flat #8 SAE | + 621010 | 1 Nameplate |
| 35 211060 2 Needle Bearing | 72 | 286760 | 4 Washer, Flat-Cap & Cover | • 621020 | 1 Decal, Oil Level |
| 36 211530 Bushing, Bronze (Hand Crank) | and Crank) 73 | 286780 | 1 Washer, Flat-Solenoid Post 5/16 | . 621230 | 1 Decal, Clutch Operation |
| 37 212010 2 Thrust Washer | | | | . 621250 | 1 Decal, Drum Warning |
| 38 218010 1 Bearing Assy., Flangette | gette | | | 621260 | 1 Decal, Capacity & Serial Number |
| | | | | . 6212/0 | 1 Decal, Safety |

Dimension Views and Wiring Diagrams

Serial Number _____







MANUFACTURED BY

FORM 10-12/-1096

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