



# Installation and Operator's Manual:

## VMX AND VSX ELECTRIC WINCHES



**VMX 8**  
**PN: 76-72140**



**VSX 9.5**  
**PN: 76-72146**



**VSX 12**  
**PN: 76-72151**

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# Safety Warnings

When using this winch, safety precautions should always be followed to reduce the risk of personal injury and damage to the winch.

1) **LEARN TO USE YOUR MILE MARKER WINCH:**

a. After winch has been installed, take some time and practice using it so you will be familiar with ALL OPERATIONS. Periodically check the winch installation to ensure that all bolts are tight.

b. To ensure proper operation, carefully inspect for any damaged parts before operating the winch.

2) **KEEP WINCHING AREA CLEAR:**

Do not allow people to remain in the area during winching operations. Do not step over a taut wire rope or allow anyone else to do so. Due to the possibility of cable failure, direct all personnel to stand clear of any possible pathway. A snapped cable could cause winch failure, injury or death. Keep proper footing and balance at all times. Do not reach over or across the winch and/or pulling cable while the winch is in operation.

3) **INSPECT WIRE ROPE AND EQUIPMENT FREQUENTLY:**

The wire rope should be inspected for damage that could reduce its breaking strength. A frayed rope with broken strands should be replaced immediately. Always replace the rope with a rope that is rated to sustain any load that the winch is capable of pulling. Any substitute must be IDENTICAL in strength, quality, lay and stranding to the Mile Marker cable originally supplied.

4) **WORKING AREA CONDITIONS:**

Keep the working area well lit. Do not use this winch in the presence of flammable gases or liquids.

5) **KEEP CHILDREN AWAY:**

Keep children away from working area. Never let children operate the winch.

6) **DRESS PROPERLY:**

Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear is the only type of clothing you should be using when operating the winch. Wear restrictive hair covering to contain long hair.

7) **USE LEATHER GLOVES:**

When handling or rewinding wire rope always use hand protection to eliminate the possibility of cuts caused by burrs & slivers from broken strands.

8) **DRUM ROPE:**

Always make sure that there are at least 5 complete turns of rope left on the drum before winching.

9) **KEEP HANDS AND FINGERS CLEAR OF WIRE ROPE AND HOOK WHEN OPERATING WINCH:**

Never put your finger through the hook when reeling in the last few feet. If your finger should become trapped in the hook or rope, you could lose your finger. Never guide a wire rope under tension onto the drum with your hand.

10) **NEVER HOOK THE ROPE BACK ONTO ITSELF:**

Hooking the rope back onto itself creates an excessive strain that could break individual strands; this, in effect, weakens the entire wire rope.

11) **KEEP PULLING DURATIONS AS SHORT AS POSSIBLE:**

The winch is designed for intermittent use and cannot be used in constant duty applications. If the motor becomes too hot to touch, stop and let it cool off for a few minutes. If the motor stalls, cut off the power immediately.

# Safety Warnings-Cont'd

When using this winch, safety precautions should always be followed to reduce the risk of personal injury and damage to the winch.

**12) DO NOT OVERLOAD:**

For your safety and efficient performance, always use this winch at or under its rated capacity. Do not use inappropriate attachments in an attempt to exceed its rated capacity.

**13) AVOID CONTINUOUS PULLS FROM EXTREME ANGLES:**

This will cause the rope to pile up at one end of the drum. When possible, please get the rope as straight as possible to the direction of the object.

**14) NEVER OPERATE THE WINCH WITHOUT THE ROPE FAIRLEAD FITTED:**

Operator injury or winch damage can result if a fairlead is not installed.

**15) STAY ALERT:**

Watch what you are doing. Use your common sense. Do not use this winch when you are tired, stressed or WHEN UNDER THE INFLUENCE OF DRUGS, ALCOHOL OR MEDICATION.

**16) DISCONNECT REMOTE CONTROL:**

Unplug the winch's remote control when not in use.

**17) REPLACEMENT PARTS & ACCESSORIES:**

When servicing, use only identical replacement parts. Usage of any other parts will void the warranty. Approved accessories are available from your local distributor.

# Precautions

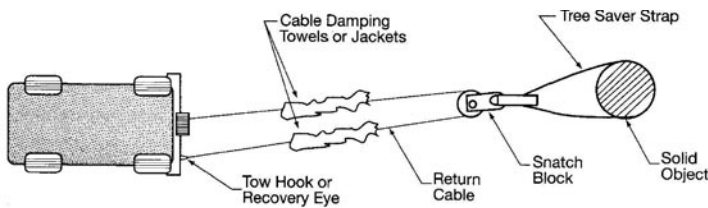
When using this winch, safety precautions should always be followed to reduce the risk of personal injury and damage to the winch.

- 1) Keeps hands and body away from Fairlead (cable intake slot) when operating.
- 2) Secure vehicle in position before using winch.
- 3) Do not exceed winch load weight capacity (see Winch Specifications).
- 4) Be certain winch is properly bolted to a structure (or vehicle) that can hold the winch load.
- 5) Always use proper couplings when connecting winch cable hook to load.
- 6) Do not lift items vertically. The winch was designed for horizontal use only.
- 7) Do not overload the winch (see Model Specifications). It will do the job better at the load it was intended.
- 8) Do not use inappropriate attachments to extend the length of the winch cable.
- 9) **NEVER LIFT PEOPLE OR HOIST LOADS OVER PEOPLE.**
- 10) Never come in between the winch and the load when operating.
- 11) Do not apply load to winch when cable is fully extended. Keep **AT LEAST 5 FULL TURNS** of cable on the drum.
- 12) After moving an item with the winch, secure the item. Do not rely on the winch to hold it for an extended period.
- 13) Examine winch before using. Components may be affected by exposure to everyday weathering, chemicals, salts, and rust.
- 14) When loading a boat into a trailer without reel or side hull rollers, make sure the trailer is submerged in the water when the boat is loaded by the winch. Attempting to drag the boat on to the trailer while on land can cause winch failure and possible injury.
- 15) Never operate winch if cable shows any signs of weakening, is knotted or kinked.
- 16) Do not cross over or under the cable while it is in process of loading.
- 17) Do not move vehicle with cable extended and attached to load to pull it. The cable could snap.
- 18) Apply blocks (such as a wheel choke) to vehicle when parked on an incline.
- 19) Re-spool cable properly.

# Winching Tips & Techniques

## WINCHING TIPS AND USE OF A SNATCH BLOCK

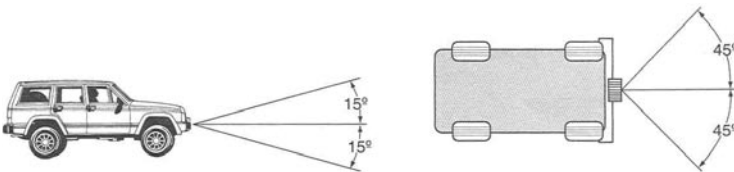
- Use OEM tow hooks, recovery eyes or a clevis mount for attachment of a tow strap or winch cable. Warning: Never use a ball and /or ball mount as an anchor point for tow strap or winch cable. Severe personal injury or death could occur.
- Always heed all winch manufacturer's recommendations, cautions, and warnings.
- Attach return cable to tow hook or recovery eye when using a snatch block. Always use a clevis to secure snatch block to strap, or severe damage could occur to persons and vehicle. (See Figure Below). Caution: Never attach return cable to winch mount. This may overload winch mount



## RATING

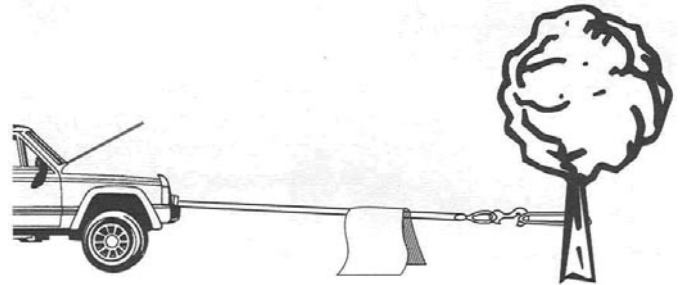
For maximum line pull rating, winch cable direction must not exceed:

- 15° angle up or down from horizontal (See Figure Below).
- 45° angle left or right from straight ahead (See Figure Below). Caution: Exceeding the maximum line pull rating may overload winch, winch mount, and/or front mounted receiver.



## SAFETY TIPS

- NEVER DISENGAGE CLUTCH LEVER WHEN THERE IS A LOAD ON THE WINCH. Mile Marker electric winches utilize an automatic load holding brake, therefore no adjustment to clutch is needed to maintain load.
- Store the remote control cord in a safe place when not in use to prevent use by children or other unauthorized persons who could injure themselves or others or damage the controls.
- Do not operate winch under the influence of drugs, alcohol, or medications.
- Isolate winch before putting hands in or around the fairlead or wire rope drum (The Danger Zone).
- DO NOT OVERLOAD YOUR WINCH. Do not maintain power to the winch if the drum stops. Overloads can damage the vehicle, winch or winch rope and create unstable operating conditions.
- It is recommended to lay a heavy blanket or jacket over the rope about halfway along to the hook attachment. Should a rope failure occur, the weight of the cloth will act as a damper and help prevent the broken rope from whipping (See Figure Below). Remember to move the blanket or jacket as winching proceeds, but halt winching when doing so. Partially raising the hood of the vehicle (ensuring visibility) will also give a measure of protection to its occupants from broken rope or cable.



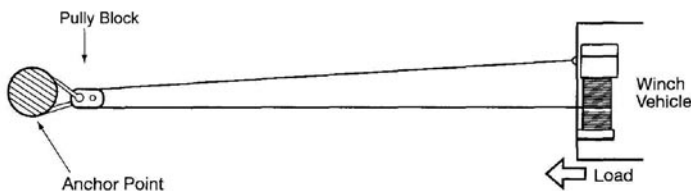
# Winching Tips & Techniques

## SELF-RECOVERY

1. Always attempt to get the cable as straight as possible to the direction of the vehicle. It is acceptable to start a pull at an angle if it is obvious that the vehicle will turn towards the hook anchoring point. Turning the steering wheel will assist the process. It is recommended that the driver is in the vehicle.
2. Make sure hand brake and foot brake are free and that the transmission is in neutral.
3. When the driver's attempt to regain vehicle traction is successful, he or she should be careful not to overrun the cable and risk the possibility of it being trapped under the vehicle.
4. DO NOT move your vehicle in reverse to assist the winch. The combination of the winch and vehicle pulling together could overload the cable and winch itself.

## USE OF A PULLEY BLOCK OR SNATCH BLOCK

Vehicle self-recovery using the pulley block attached to the anchor point for direct pull. In this instance the vehicle becomes the "load" and the actual pulling power on the vehicle will be double at half winch rope speed. Never connect wire rope or hook back to winch mount!



Below: Direct pull on load using the winch vehicles as the anchor with pulley block attached to the load.

The most important aid to successful winching (after the winch) is the pulley block, which can be used to increase the pulling power of the winch of for indirect pulls. Pulley blocks can be used in two modes. First mode is attached to the load and second is secured to an anchor point.

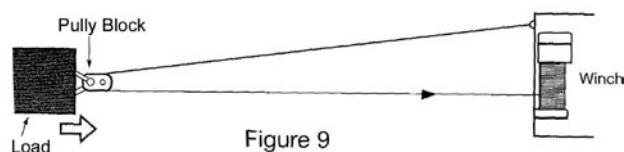
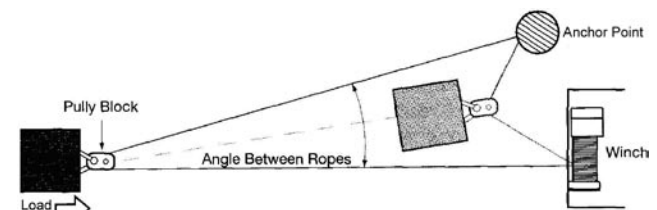


Figure 9

Below: Indirect pull necessitated by obstructions or soft ground. Pulley block attached to load using a suitable anchor point. Note the angled direction taken by the load and subsequent angle of rope feedback on the winch drum (extreme example shown). There may be unavoidable circumstances requiring this mode, though in general it is not recommended unless applied in stages by moving the anchor point or vehicle to avoid the sharp angled rewind on the winch drum. The actual load pulling power and rope speed will depreciate with any increased angle between the ropes.

The anchor point, when used must be secure, using a tree, another vehicle or any firm structure to which a pulley block can be used to your advantage.



## USE OF A NYLON SLING AND SHACKLE

A shackle should always be used when attaching winch hooks to nylon slings. NOTE: The shackle must pass through both eyes of the sling. The safe working load of the nylon sling is based on the use of both eye ends. Never use the cable or hook to connect directly to the nylon sling.

## USE OF GLOVES & CABLE HANDLING

When handling or rewinding the cable always use gloves to eliminate the possibility of cuts caused by burrs and broken strands. Inspect cable and equipment frequently. The cable should be replaced immediately if any sign of burrs or broken strands are evident. A frayed cable with broken strands should be replaced immediately. Always replace the cable with a Mile Marker recommended replacement part. Any substitution must be IDENTICAL in strength, quality, lay and stranding. Never hook the cable back onto itself. Hooking the cable back onto itself creates an unacceptable strain, breaking individual strands which in turn weakens the entire cable. Use a sling. Avoid continuous pulls from extreme angles as this causes cable to pile up at one end of the drum.



# Getting Started

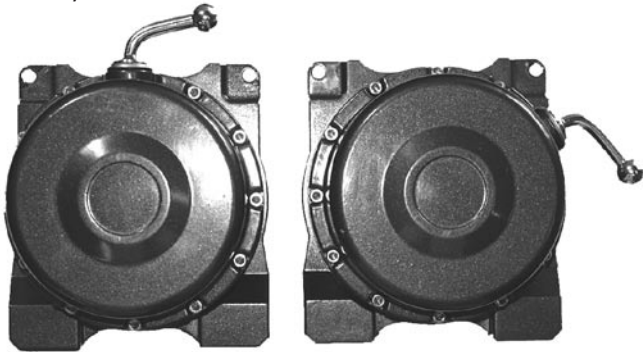
## Unpacking Your Winch

Unpack your new Mile Marker winch and ensure that all the parts are included by referring to parts list and exploded view drawings provided in this manual.

**NOTE:** If you find any missing or broken parts, please call Mile Marker as soon as possible at the number present on the cover page of this manual.

## Clocking Instructions

Winch gear housing can be clocked in 12 ways enabling the user to position the clutch lever at 12 equidistant locations (0°, 30°, 60°...360°). Undo the 11 bolts (item # 33, M5x58) on the gear housing. Rotate the gear housing to any one of the above position so that all holes align. Secure the gear side housing to the winch leg by the 11 bolts (item # 33, M5x58) that were earlier removed.



Clocking Positions: 0° and 60°

## FRP Insulated Cables

Your new Mile Marker winch is packaged with Fiberglass Reinforced Polymer Sheathing on all cables. This exclusive feature provides better heat and abrasion resistance over non insulated material, but all existing cable precautions should continue to be followed carefully.



## MiFi Technology™

The X Series winch line features Solid State, Variable Speed Control. This innovative control system uses a sophisticated PC Board and MOSFET drivers to control winch functions, and completely eliminates the electromechanical solenoid switch used in the past.

## Winch Mounting

**NOTE:** Mile Marker recommends the use of its mounting systems for proper winch installation and optimum winch performance. However, when not using Mile Marker Mounting System, ensure that the mounting platform is strong enough to meet the maximum rated load of the winch in use. Mile Marker recommends steel plates with thickness of at least 0.25".

Your Winch should be aligned and secured to a solid part of the vehicle (front or rear) where the full rated load will be evenly distributed.

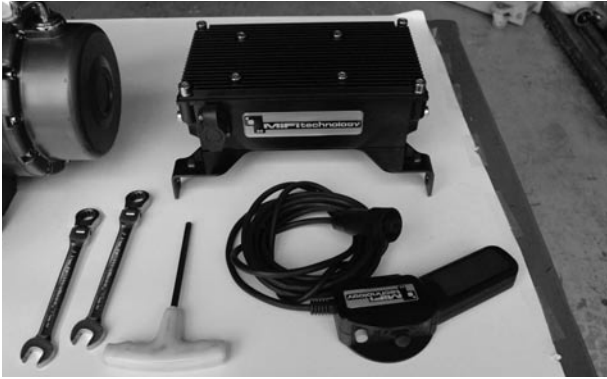
**CAUTION:** It is essential that the mounting surface be flat and the winch is mounted such that the three major sections (Gear housing end, drum and motor end) are in proper alignment.

1. Drill four mounting holes (10mm in Dia.), if necessary, according to the bolt pattern mentioned in the winch specifications.
2. Fasten the winch body to the mounting platform using the four Capscrews (M10 X 34mm).
3. Torque the Capscrews to about 35 ft-lb (47.5 N-m).
4. All Mile Marker Mounting Systems come pre-drilled with fairlead holes. If you are using any other mounting platforms, drill two holes for the roller fairlead installation. Position the holes such that the fairlead opening hole stretches from the circumference of the drum to the end of the maximum permissible layers on the drum in the direction cable is being rolled.

**CAUTION:** When replacing the capscrews or when longer bolts are required, make sure that you use bolts of Grade 5 or greater.



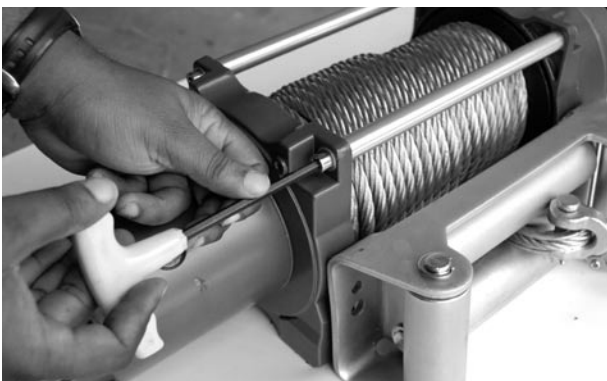
# Control Box Installation



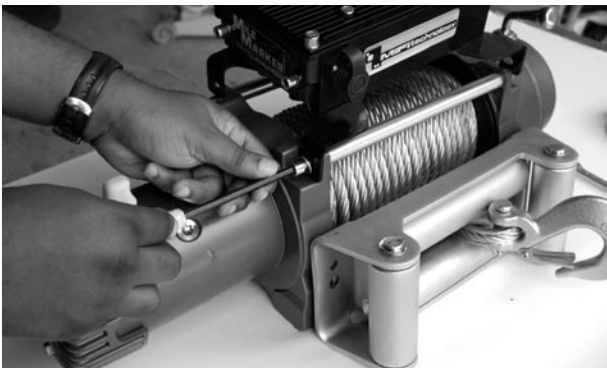
**2-1: Control Box and Tools Needed: 14mm & 13mm Wrench, 6 MM Allen Wrench**



**2-2: Control Box Mounting Points**



**2-3: Remove Front Tie Bar Bolts with 6MM Allen Wrench**



**2-4: Place Control Box on outside of winch leg; DO NOT COMPLETELY TIGHTEN.**

**NOTE:** Your Mile Marker Control Box can either be mounted to the winch or in a remote location. However, Mile Marker recommends you to mount it to the winch following the instructions below. If you choose to mount it in a remote (custom) location, please ensure that: (a) the location does not interfere with any vehicle's moving / functioning parts, and (b) you use electrical cables with similar or better specifications as that provided by Mile Marker.

**CAUTION:** Make sure that all exposed electrical connections are covered with insulation boots to avoid electrical short.

Battery cables should not be drawn taut; leave some slack for cable movement. Also, ensure that they are routed properly with out any interference with the vehicular components that could potentially damage the cable or cause electrical short.

Long battery cable runs may have significant voltage drops that may cause the winch motor controller to not operate.

## X Series Control Box Installation

You will need a 14mm wrench, 13mm wrench, a 6mm metric Allen wrench. You will also need general hand tools for mounting the winch.

1. Unpack the control box (fig. 2-1).
2. Remove front tie bar with a 6mm Allen wrench and mount the motor control box to the tie bar die casting. **DO NOT COMPLETELY TIGHTEN BOLTS** (fig. 2-2 through 2-4).
3. Repeat tie bar removal process with the rear tie bar. When control box is properly installed at all four points, tighten tie bar bolts to secure in position (figs. 2-5 & 2-6).
4. Slip the protective boots onto power cables and make electrical connection in accordance with the schematic on page 11, reserving the "To Battery" connection for the last step of installation. Tighten connections with a 13mm wrench (figs. 2-7 through 2-13).
5. Run the long red and black battery cables carefully under hood of vehicle, avoiding interference with moving parts and abrasion points which could potentially cause electrical short. Attach Black Cable to Negative Battery Terminal (-), followed by Red Cable to Positive Battery Terminal (+) (fig. 2-14).

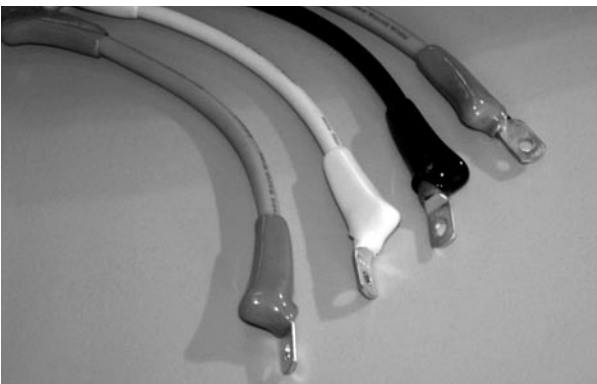
# Control Box Installation Cont'd



**2-5: Repeat for Opposite Side, and Rear Tiebar**



**2-6: Once all points are mounted, TIGHTEN ALL FOUR BOLTS.**



**2-7: Slide Protective Boots on to Cables.**



**2-8: Attach Cable and Tighten with 13 MM Wrench. Repeat per schematic.**

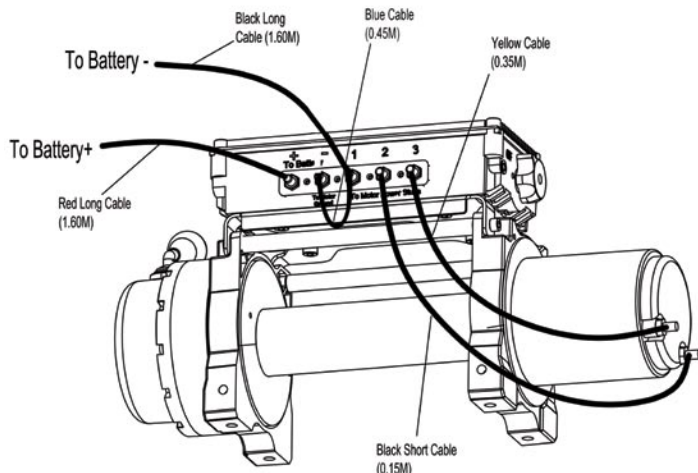


**2-9: Affix boot over cable connection. Be sure boot completely covers electrical connection. Repeat for all connections.**

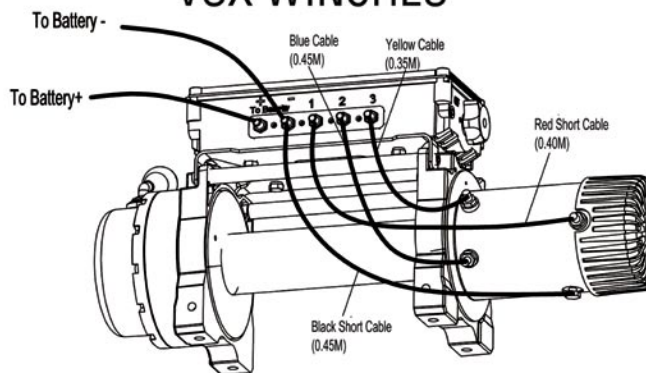
# Control Box Installation Cont'd

**CAUTION:** Do Not Connect Cables to Battery until unit is completely wired to control box and installed on vehicle. Reserve for last step of installation.

## VMX WINCHES



## VSX WINCHES



**CAUTION:** Do Not Connect Cables to Battery until unit is completely wired to control box and installed on vehicle. Reserve for last step of installation.

2-9: Complete Wiring Schematic: X Series

# Winch Operation: V Series

**NOTE:** For optimal winch performance, it is recommended that you use a fully charged 12V battery with at least 650 Cold Cranking Amperes. Further, it is advised to keep the engine running during the winch operation, so that the battery is being charged continuously.

All Mile Marker X Series winches are equipped with a Clutch Lever that engages / disengages the clutch. Clutch, when engaged, will couple the gear train with winch drum; this is also known as Locking of the winch. The Clutch, when disengaged, de-couples the gear train from the winch drum enabling the drum to rotate independently; this is also called Freespooling the winch.

**CAUTION:** Before you start using your new Mile Marker winch, you will have to re-wind the entire cable on the drum under a load of at least 500 lbs (227 Kg) starting with at least 5 wraps on the initial layer. Failure to do so will result in the outer wraps pressing against the inner wraps resulting in the damage of the cable.

Always have at least 5 wraps of cable on the winch drum before winching. Always ensure that the clutch is fully engaged or fully disengaged to avoid any injuries and damages.

All electrical winches are for intermittent use only. Never run the winch at maximum rated load for any extended duration. Wait until the motor cools down before resuming winching operation. Usage of a snatch block is recommended to reduce the load on the winch motor.

Mile Marker Electric Winches feature an Automatic Load Holding brake; NEVER run the winch against the brake (OUT on the hand control) for more than 10 seconds. Failure to do so might result in damage to the brake and motor. ALWAYS stay clear of the loaded winch cable.



# Winch Operation Cont'd

**IMPORTANT:** The V Series is a M.O.S.F.E.T. driven, computer controlled winch series with Variable Speed line retrieval capabilities. The Variable Speed feature is intended for precision and safety in technical situations. The winch is NOT intended to be used under PARTIAL TOGGLE for any extended period of time.

## Operational Instructions

Please refer to pages 3-7 of this manual for proper winch safety procedures and precautions.

1. Disengage the clutch by moving the Clutch Lever to Disengage Position (or Freespool mode)(Fig. 3-1).
2. Freespool the cable and connect to the desired anchor point (self recovery) or vehicle being recovered.
3. Fully Engage the clutch by moving the Clutch Lever to Engage Position (Fig. 3-1).
4. Lift the protective boot covering the remote control plug-in. Insert the remote control plug and tighten thread lock (Figs. 3-2 through 3-4).
5. Turn the orange kill switch from the "OFF" position, to the "ON" position. The control box lights will illuminate BLUE.
6. Press the red "On/Off" button on the remote control. The remote control will illuminate BLUE, indicating power ON (Figs. 3-5 & 3-6).
7. Start winching IN (GREEN lights will turn on, Figs. 3-7 & 3-8) to remove the slack on the cable, ensuring that the cable is winding onto the drum properly (with out any overlapping or gaps). Never disengage the clutch while the cable is under load!
8. When finished winching, let off the load by winching OUT (RED lights on the remote control will TURN ON), unhook the cable and re-wind the cable onto the drum (Figs. 3-7 & 3-8).
9. Press RED On/Off button to power OFF. Rotate the Orange Kill switch to the "OFF" position. Unplug the hand control and push the protective boot cover back on to the Plug-in.

## Safety Features:

### LOW VOLTAGE/LOW SYSTEM CHARGE WARNING:

1. If the vehicles charging system (measured at the motor control pack) drops below a safe voltage the LED lights will flash. This is to warn you that your charging system is dangerously low and you may not be able to safely use your winch much longer.
2. If the vehicle's charging system (measured at the motor control pack) continues to drops below a safe voltage then LED lights will flash and the winch's on-board computer will shut the winch off. This is to protect your winch and your vehicle.
3. When the vehicles charging system is at a safe voltage, the winch controller will stop flashing and the winch is able to be used again . However, it is recommended that adequate time be given for vehicles charging sytem to fully recover in order to maintain proper voltage for winching.

### OVER TEMPERATURE WARNING:

1. The winch's on-board computer can detect if the winch temperature has gotten too hot. When your winch gets too hot, the LED lights will flash and the on-board computer will shut the winch motor off.
2. When the LED lights stop flashing, your winch is at a safe operating temperature, and you may resume winching as normal.

## DISENGAGED



## ENGAGED

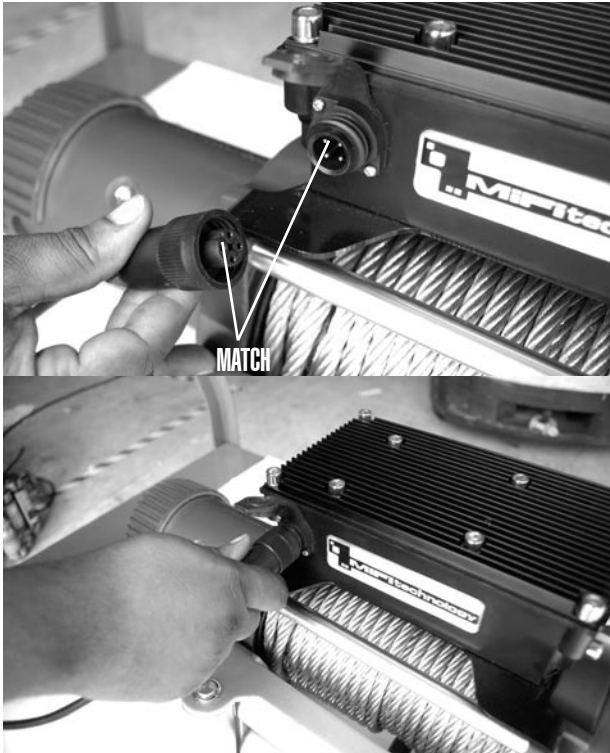


3-1: Clutch Engagement



3-2: Remove Protective Cover

# Winch Operation: X Series



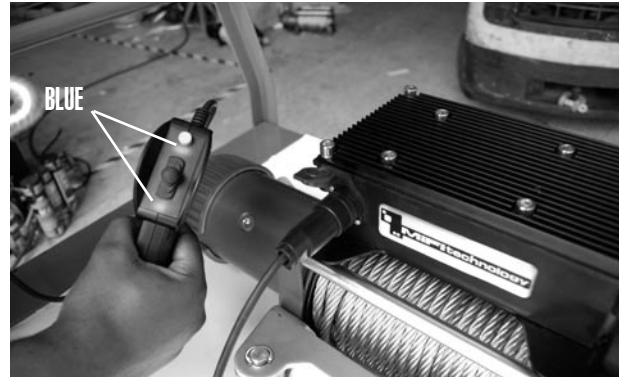
3-3: Match Notch and Plug In.



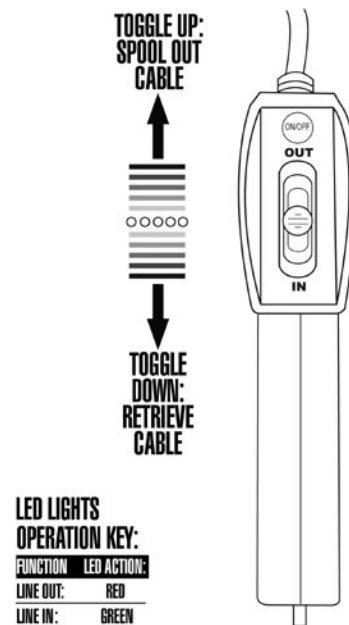
3-4: Tighten Thread Lock



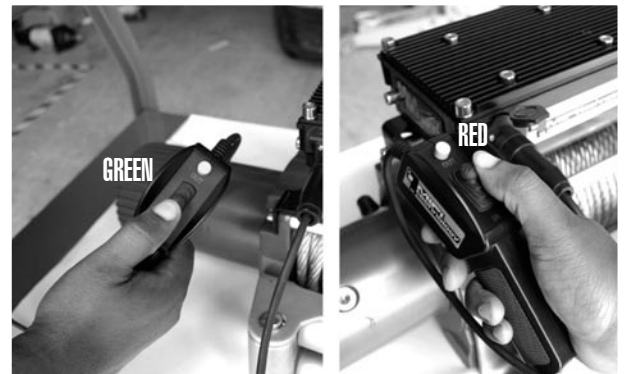
3-5: Press Red Button to Power Unit



3-6: Power On, LEDs illuminated "Blue"



3-7: Control Pendant Function Diagram



3-8: Power in "Green", Power out "Red"

# Winch Maintenance

- All moving parts within the Electric Winch have been lubricated using high temperature lithium grease at the factory. No further internal lubrication is required for the life of the winch.
- Lubricate the cable periodically using light penetrating oil.
- Electrical connections may corrode over a period of time due to environmental changes. This may result in reduced performance of the winch or even possible electrical shorting. Hence, always clean the electrical connections before and after using the winch.
- After every use of the winch, inspect the cable for damages such as kinks, broken strands etc. When damaged, replace the cable immediately!

**CAUTION:** It is recommended that you replace the cable with superior Mile Marker cables. If replacing from other sources, carefully compare for the maximum load capacity of the cable with that mentioned in the Specifications Section of this manual.

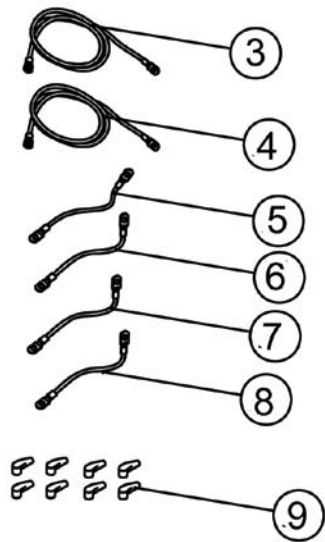
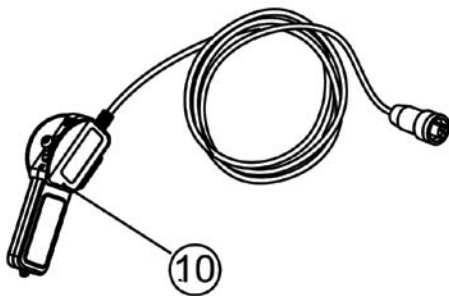
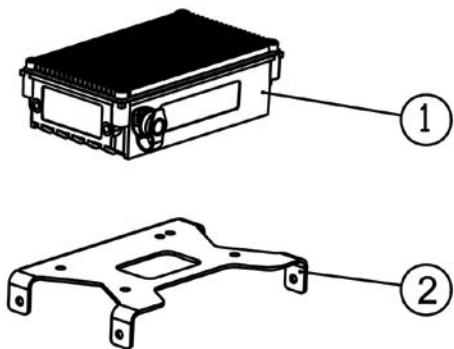
## Troubleshooting

SYMPTOM	POSSIBLE	SUGGESTED
<b>Motor does not turn on</b>	Remote control switch is not turned on.	Turn on Remote control switch.
	LED green, blue, red alternate flashing.	Temperature Over-Heat shutdown, let winch cool down.
	Red green LED flashes.	Low Voltage Warning. Recharge battery.
	Loose battery cable.	Tighten nuts on cable connectors.
	Control Box malfunctioning	If the LEDs do not light up on the Remote Control, and the battery is fully charged, then the control box needs to be replaced.
	Defective motor	Check for voltage at armature port with switch pressed. If voltage is present, replace motor.
	Water has entered motor	Drain and dry. Run in short bursts without load until completely dry.
<b>Motor runs too hot</b>	Long period of operation	Let winch cool down periodically.
<b>Motor runs slowly or without normal power</b>	Battery runs down.	Recharge battery by running vehicle's engine.
	Insufficient current or voltage	Clean, tighten or replace the connector.
<b>Motor runs but cable drum does not turn.</b>	Clutch not engaged	Ensure lever is completely in "engaged" position. If that does not work, contact qualified technician to check and repair.
<b>Motor runs in one direction only</b>	Control Box is defective or damaged.	Replace control box.

# Control Box Breakdown

Item	Quantity	Part Number	Description
1	1	93-72000-06	MiFi CONTROL BOX
2	1	77-52151-03	MiFi CONTROL BOX MOUNT
3	1	77-52151-11	Red Long Cable (1600mm)
4	1	77-52151-12	Black Long Cable (1600mm)
5	1	77-52151-13	Short Red Cable (400mm)

Item	Quantity	Part Number	Description
6	1	77-52151-14	Short Black Cable (450mm)
7	1	77-52151-15	Short Yellow Cable (350mm)
8	1	77-52151-16	Short Blue Cable (300mm)
9	8	77-52151-17	Terminal Boot
10	1	77-52151-18	MiFi Technology Remote Control





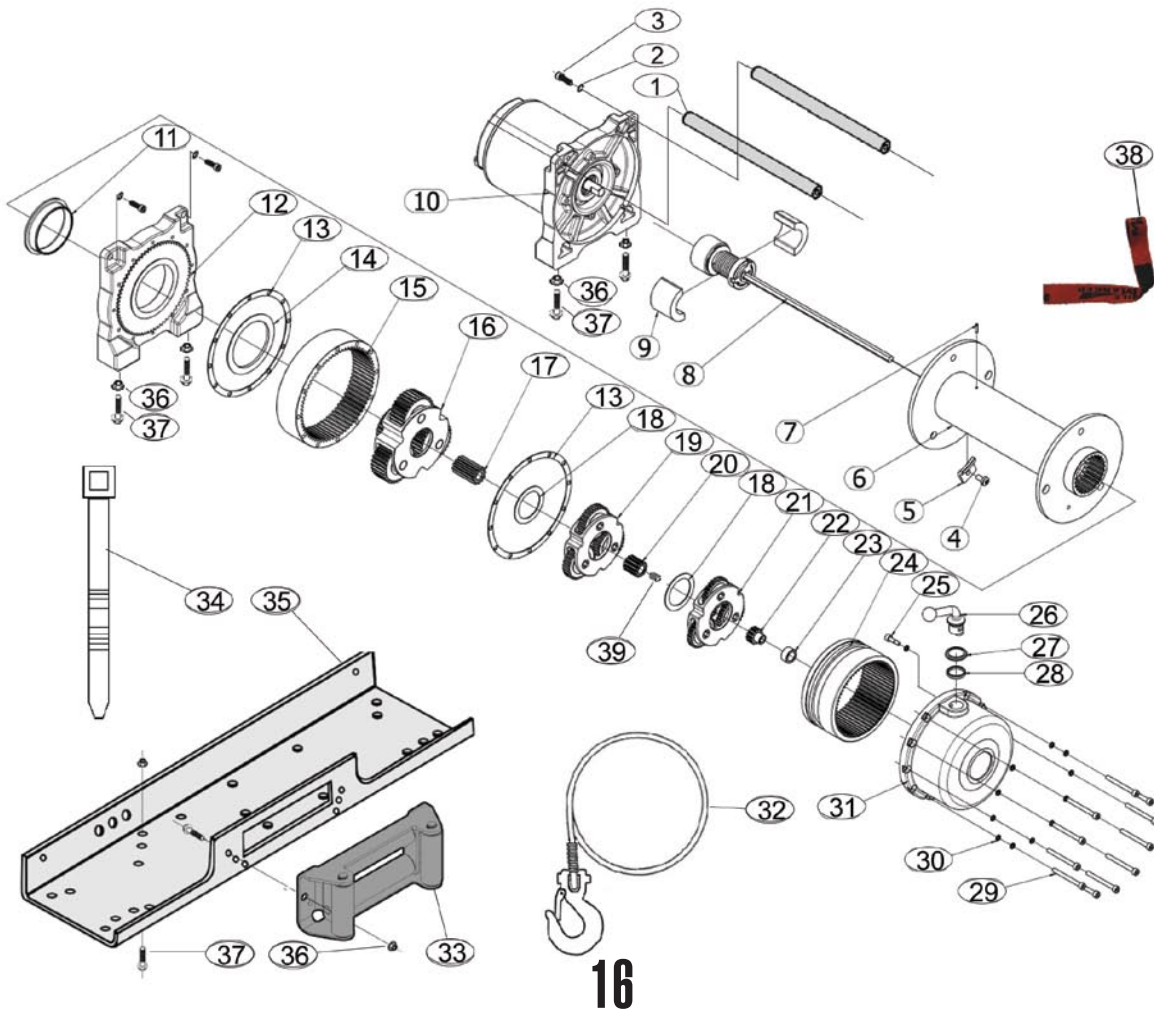
# VMX8 Parts Breakdown & Assembly

Item	Quantity	Part Number	Description
1	2	76-50140-30	Tie Bar
2	4	76-50140-28	Spring Washer $\phi 8$
3	4	76-50140-27	Bolt M8x25
4	1	76-50140-18	Screw M6x12
5	1	76-50115-19	Cable Anchor
6	1	76-50148-09	Drum
7	1	76-50140-20	Spring Pin 3x12
8	1	76-50151-08	Brake Assembly
9	2	76-50140-24	Brake shoe
10	1	76-50140-10	Motor End Bearing Assembly
11	2	76-50151-13	Dry Bearing
12	1	76-50151-33	End Bearing
13	2	76-50151-12	Gasket
14	1	76-50151-29	Washer
15	1	76-50151-26	Gear Ring
16	1	76-50145-03	Gear Carrier
17	1	76-50151-22	Gear Output-Sun
18	1	76-50140-14	Thrust Washer
19	1	76-50148-02	Gear Carrier-Intermediate
20	1	76-50145-17	Gear-Intermediate Sun

Item	Quantity	Part Number	Description
21	1	76-50148-01	Gear Carrier Assy-Input
22	1	76-50151-18	Gear Input Sun
23	1	76-50151-25	Gear Bushing
24	1	76-50151-21	Gear Ring-input/intermediate
25	1	76-50151-23	Retaining Screw M5x16
26	1	76-50151-39	Clutch Handle
27	1	76-50151-38	Seal Cover
28	1	76-50151-15	Seal
29	11	76-50151-10	Bolt M5x58
30	12	76-50140-35	Spring Washer, Diameter 5mm
31	1	76-50151-11	Gear Ring Housing
32	1	76-50140-04	Cable Assembly, $\phi 5/16"$ x 100'
33	1	WH-10	Roller Fairlead
34	1	76-50152-32	Plastic Binding Strap
35	1	50-87283**	Channel Mount (*NOT INCLUDED*)
36	6	76-50140-34	Nut M10
37	6	76-50140-37	Bolt M10x34
38	1	19-50042	Hook Strap
39	1	76-50151-44	Bushing-Intermediate Sun gear

\*When ordering parts, be sure to quote Winch Model,  
Winch series number and Part number.

\*\*Channel Mount NOT Included



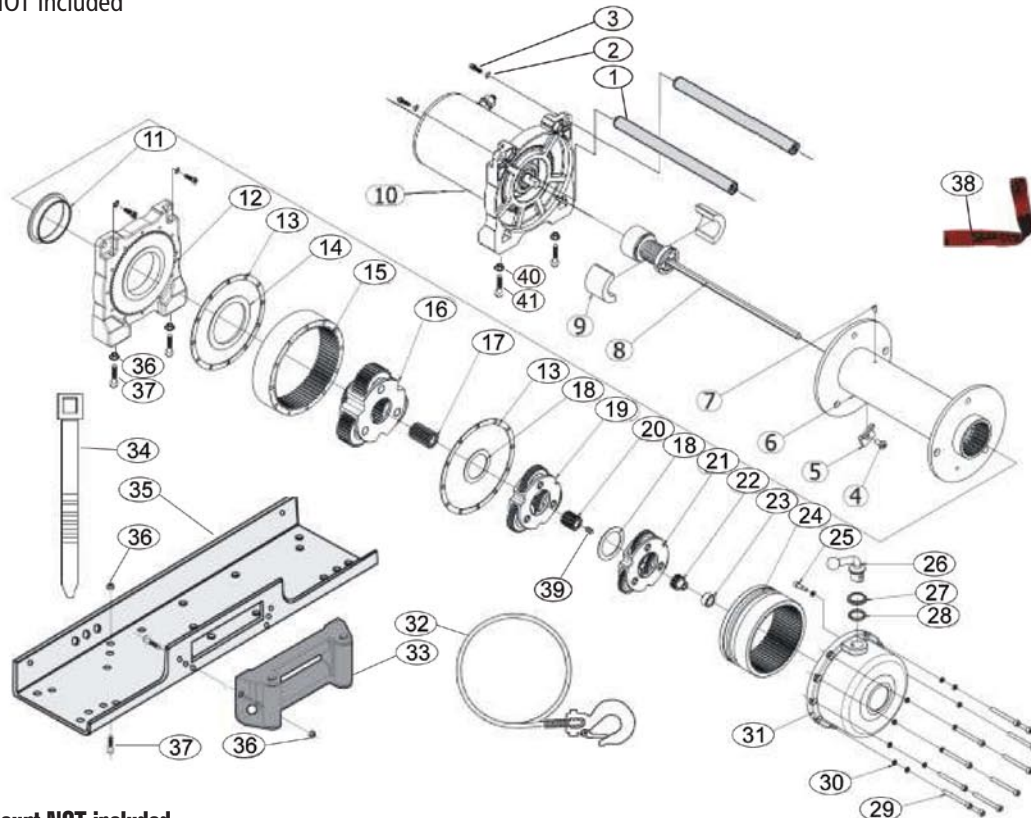
# VSX 9.5 Parts Breakdown & Assembly

Item	Quantity	Part Number	Description
1	2	76-50140-30	Tie Bar
2	4	76-50140-28	Spring Washer #8
3	4	76-50140-27	Bolt M8x25
4	1	76-50140-18	Screw M6x12
5	1	76-50115-19	Cable Anchor
6	1	76-50146-09	Drum
7	1	76-50140-20	Spring Pin 3x12
8	1	76-50151-08	Brake Assembly
9	2	76-50140-24	Brake shoe
10	1	76-50151-07	Motor End Bearing Assembly
11	2	76-50151-13	Dry Bearing
12	1	76-50151-33	End Bearing
13	2	76-50151-12	Gasket
14	1	76-50151-29	Washer
15	1	76-50151-26	Gear Ring
16	1	76-50145-03	Gear Carrier
17	1	76-50151-22	Gear Output-Sun
18	1	76-50140-14	Thrust Washer
19	1	76-50146-02	Gear Carrier-Intermediate
20	1	76-50145-17	Gear-Intermediate Sun

Item	Quantity	Part Number	Description
21	1	76-50146-01	Gear Carrier Assy-Input
22	1	76-50151-16	Gear Input Sun
23	1	76-50151-25	Gear Bushing
24	1	76-50151-21	Gear Ring-input/intermediate
25	1	76-50151-23	Retaining Screw M5x16
26	1	76-50151-39	Clutch Handle
27	1	76-50151-38	Seal Cover
28	1	76-50151-15	Seal
29	11	76-50151-10	Bolt M5x58
30	12	76-50140-35	Spring Washer, Diameter 5mm
31	1	76-50151-11	Gear Ring Housing
32	1	76-50145-04	Cable Assembly, #3/8"x100'
33	1	WH-10	Roller Fairlead
34	1	76-50152-32	Plastic Binding Strap
35	1	50-87283**	Channel Mount (*NOT INCLUDED*)
36	6	76-50140-34	Nut M10
37	6	76-50140-37	Bolt M10x34
38	1	19-50042	Hook Strap
39	1	76-50151-44	Bushing-Intermediate Sun gear

\*When ordering parts, be sure to quote Winch Model, Winch series number and Part number.

\*\*Channel Mount NOT Included



\*\*Channel Mount NOT included

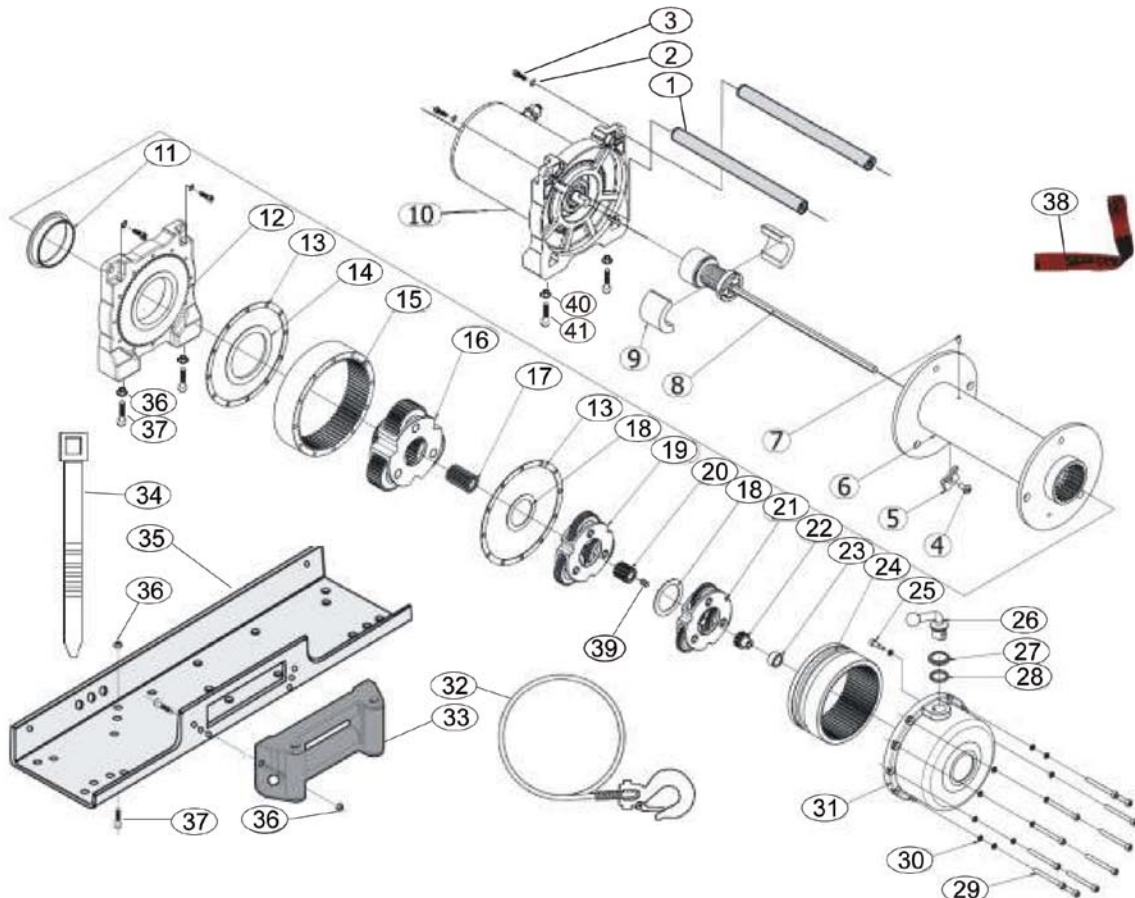
# VSX 12 Parts Breakdown & Assembly

Item	Quantity	Part Number	Description
1	2	78-50140-30	Tie Bar
2	4	78-50140-28	Spring Washer $\phi 8$
3	4	78-50140-27	Bolt M8x25
4	1	78-50140-18	Screw M8x12
5	1	78-50115-19	Cable Anchor
6	1	78-50148-09	Drum
7	1	78-50140-20	Spring Pin 3x12
8	1	78-50151-08	Brake Assembly
9	2	78-50140-24	Brake shoe
10	1	78-50151-07	Motor End Bearing Assembly
11	2	78-50151-13	Dry Bearing
12	1	78-50151-33	End Bearing
13	2	78-50151-12	Gasket
14	1	78-50151-29	Washer
15	1	78-50151-26	Gear Ring
16	1	78-50145-03	Gear Carrier
17	1	78-50151-22	Gear Output-Sun
18	1	78-50140-14	Thrust Washer
19	1	78-50151-02	Gear Carrier-Intermediate
20	1	78-50150-17	Gear-Intermediate Sun

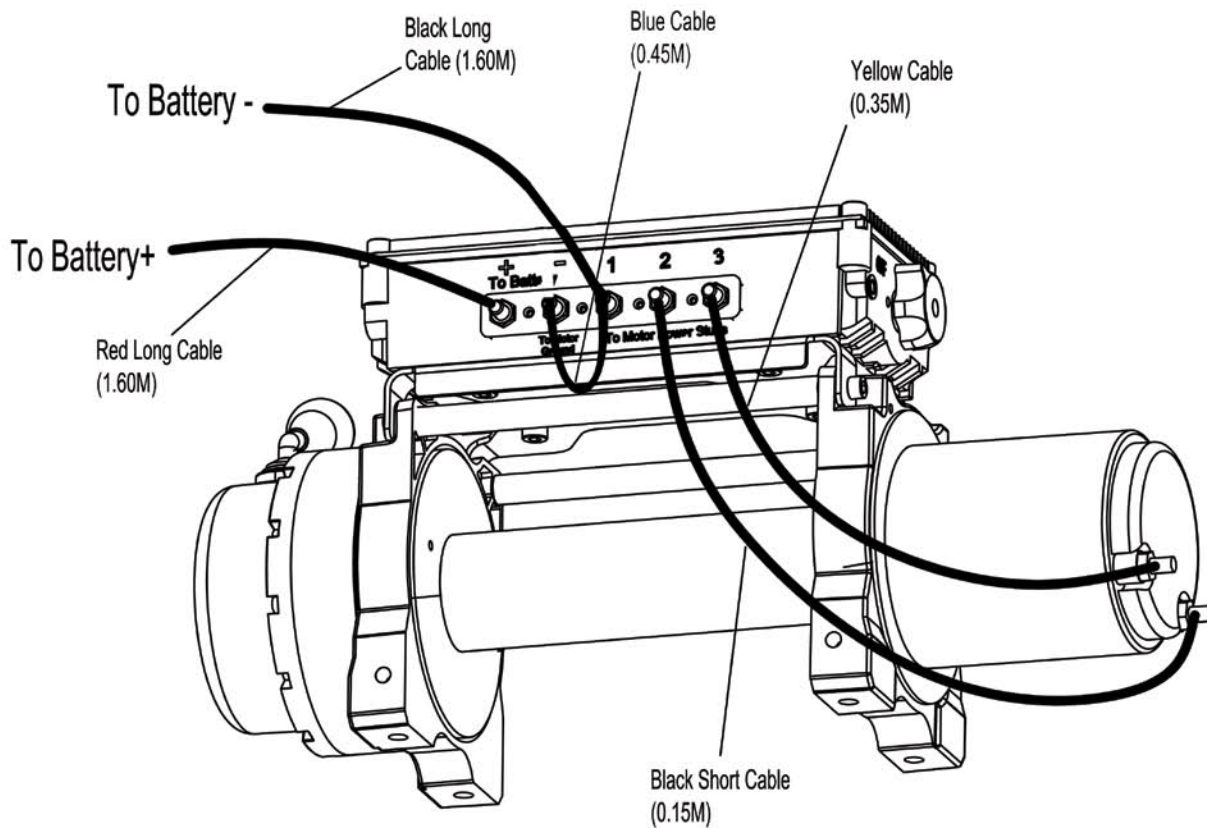
Item	Quantity	Part Number	Description
21	1	78-50151-01	Gear Carrier Assy-Input
22	1	78-50151-16	Gear Input Sun
23	1	78-50151-25	Gear Bushing
24	1	78-50151-21	Gear Ring-input/intermediate
25	1	78-50151-23	Retaining Screw M5x16
26	1	78-50151-39	Clutch Handle
27	1	78-50151-38	Seal Cover
28	1	78-50151-15	Seal
29	11	78-50151-10	Bolt M5x58
30	12	78-50140-35	Spring Washer, Diameter 5mm
31	1	78-50151-11	Gear Ring Housing
32	1	78-50145-04	Cable Assembly, $\phi 3/8"$ x100'
33	1	WH-10	Roller Fairlead
34	1	78-50152-32	Plastic Binding Strap
35	1	50-87283**	Channel Mount (*NOT INCLUDED*)
36	6	78-50140-34	Nut M10
37	6	78-50140-37	Bolt M10x34
38	1	19-50042	Hook Strap

\*When ordering parts, be sure to quote Winch Model,  
Winch series number and Part number.

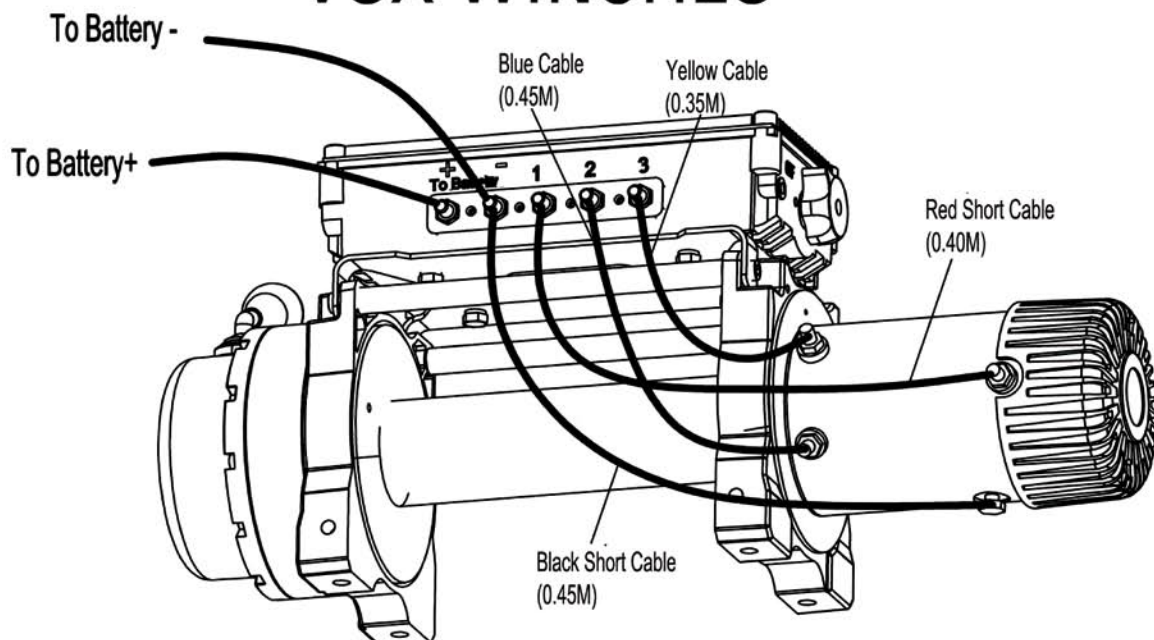
\*\*Channel Mount NOT Included



# VMX WINCHES



# VSX WINCHES





## MILE MARKER WARRANTY INFORMATION

### Mile Marker Inc. electric winch limited 2-year warranty

Mile Marker, Inc. offers a limited two (2) year warranty to the original retail purchaser for each new Mile Marker electric winch, used as a recreational recovery winch only, against manufacturing defects in workmanship and materials on all mechanical components. Electrical components consisting of motors, solenoids, wiring, wire connectors and associated parts have a limited one (1) year warranty. New cable assemblies are warranted against defects in workmanship and materials when received by the retail purchaser. There is no applicable warranty after initial use. Excluded from this warranty are the finish of the winch and any condition Mile Marker determines to have been caused by misuse or abnormal use. Warranty registration cards for each winch must be submitted at the time of purchase or within 30 days by the end user. Registration cards must reference winch serial number to be valid. Warranty will only be valid for the original purchaser of the winch and installed on the vehicle for which it was originally registered. The owner will be responsible for removing the winch and returning it to Mile Marker freight prepaid unless a determination is made that replacement parts can be sent out which will remedy the problem. Mile Marker will repair or replace any or all winch parts, which after inspection determines to be defective. If the product was purchased in the United States, the owner must contact our warranty department to get a Return Goods Authorization (RGA) Number before returning the product. If the product was purchased outside the United States, the owner must return the product to the original place of purchase.

Mile Marker electric winches are intended for recreational self recovery usage. The warranty is void if the winch is used in commercial or industrial applications.

### General Warranty Procedure and Policy:

For U.S. Customers: DO NOT RETURN TO PLACE OF PURCHASE. The end user MUST contact Mile Marker directly by calling 1-800-886-8647. Our customer service representatives will work to resolve any warranty issues. The owner must receive a Return Goods Authorization (RGA) Number before returning any product. The owner will be responsible for removing the product and returning it to Mile Marker freight prepaid unless a determination is made that replacement parts can be sent out which will remedy the problem. Mile Marker will repair or replace any or all parts, which after inspection determines to be defective.

For International Customers: RETURN PRODUCT TO PLACE OF PURCHASE, OR IF NOT FEASIBLE, CONTACT MILE MARKER. The Distributor or Dealer may then repair or replace the product. The dealer may then contact Mile Marker by calling 1-800-886-8647 to receive an RGA number to return merchandise for warranty consideration. If a Distributor or Dealer chooses to submit warranty claims for the end user or Jobber there are certain guidelines that need to be adhered to. They are as follows:

- The merchandise must be within the warranty period. See the Mile Marker warranty statement for time periods.
- Freight must be prepaid to the designated warranty service location.
- Mile Marker will inspect the returned merchandise and make a determination if the problem is warrantable. If it is warrantable Mile Marker will repair and return freight prepaid.

For all returned merchandise: If it is determined that a problem is not warrantable Mile Marker will contact the returning party to determine a disposition of the merchandise as follows:

- Return "as is" without repairing.
- Provide an estimate of the repair costs to the sender for approval/disapproval and take action as directed by the sender.

After receiving the Returns Good Authorization (RGA) Number: Attach the RGA Number, your name, address, phone number and a detailed description of problem relating to malfunction and a copy of a bill of sale. To obtain any warranty coverage, it is absolutely necessary that you present proof of purchase acceptable to Mile Marker, such as a purchase receipt. Please remove the cable from any winch to save both parties on freight costs, and package the product either in its original packaging, or other adequate means of packaging. Mile Marker will not repair or warranty items that are damaged in shipment to us, unless it is no fault of the customer.

### Warranty Exclusions:

There are certain conditions that are not eligible for warranty consideration by Mile Marker. They are as follows but not limited to the following:

- Winches returned in pieces will not be considered for warranty.
- Any item that has been involved in an accident will not qualify for warranty.
- Winches caked in mud will not qualify for warranty
- Winches that have been modified or taken apart and reassembled will not qualify for warranty.
- Winches that have the tie bars separated from the housing will not qualify for warranty.
- Winches that show general abuse will not qualify for warranty.
- Products damaged in shipping due to poor packaging will not qualify for warranty.
- Mile Marker will not issue an RGA for products that have been batched. If a Distributor or dealer receives a winch or other item for warranty consideration by Mile

Marker, it must have an RGA issued and sent to the designated service location within 15 days of receipt from the end user. Mile Marker will not accept any merchandise without an RGA number or that exceeds the 15 day period. No credits will be provided. Products returned to Mile Marker will be repaired or replaced and returned.

Important Notice: To the fullest extent permitted by applicable law, the following are hereby excluded and disclaimed:

1. All warranties of fitness for a particular purpose;
2. All warranties of merchantability;
3. All claims for the face hereof.

Some states do not ☐

To the extent such warranties of fitness or merchantability are deemed to apply to this product, they exist for only so long as the express limited warranty elsewhere set forth is in existence.

The obligation under this warranty, statutory or otherwise, is limited to the replacement or repair at the manufacturer, upon inspection of such part(s), to have been defective in material or workmanship. This warranty does not obligate Mile Marker, Inc. to bear the cost of labor or transportation charges in connection with the replacement or repair of defective parts, nor shall it apply to a product upon which repairs or alterations have been made, unless authorized by the manufacturer, or for equipment misused, neglected or improperly installed.

Mile Marker, Inc. reserves the right to change, add or delete products that were previously manufactured.

Consequential Damages: Mile Marker accepts no liability, responsibility or obligations for incidental, indirect or consequential damages from the use of Mile Marker products no matter what the conditions of use. This includes injuries, repair costs, lost time, economic impacts and other similar impacts. Some states do not allow the above exclusions or disclaimers in consumer transactions and as such this disclaimer/exclusion may not apply to you.

This warranty gives you specific legal rights and you may have other legal rights which vary from state to state. To submit a warranty claim contact; Mile Marker, Inc. Warranty Administrator 2121 Blount Road, Pompano Beach , FL 33069 (800) 886-8647



ISO  
9001  
QUALITY  
ASSURANCE  
#11940



International  
Organization for  
Standardization

## MILE MARKER<sup>INCORPORATED</sup>

2121 BLOUNT ROAD  
POMPANO BEACH, FL 33069 USA

800.886.8847 TOLL FREE  
954.782.0604 USA & INT'L  
954.782.0770 FAX

[WWW.MILEMARKER.COM](http://WWW.MILEMARKER.COM)  
[INFO@MILEMARKER.COM](mailto:INFO@MILEMARKER.COM)

