



# M661 Instruction Manual

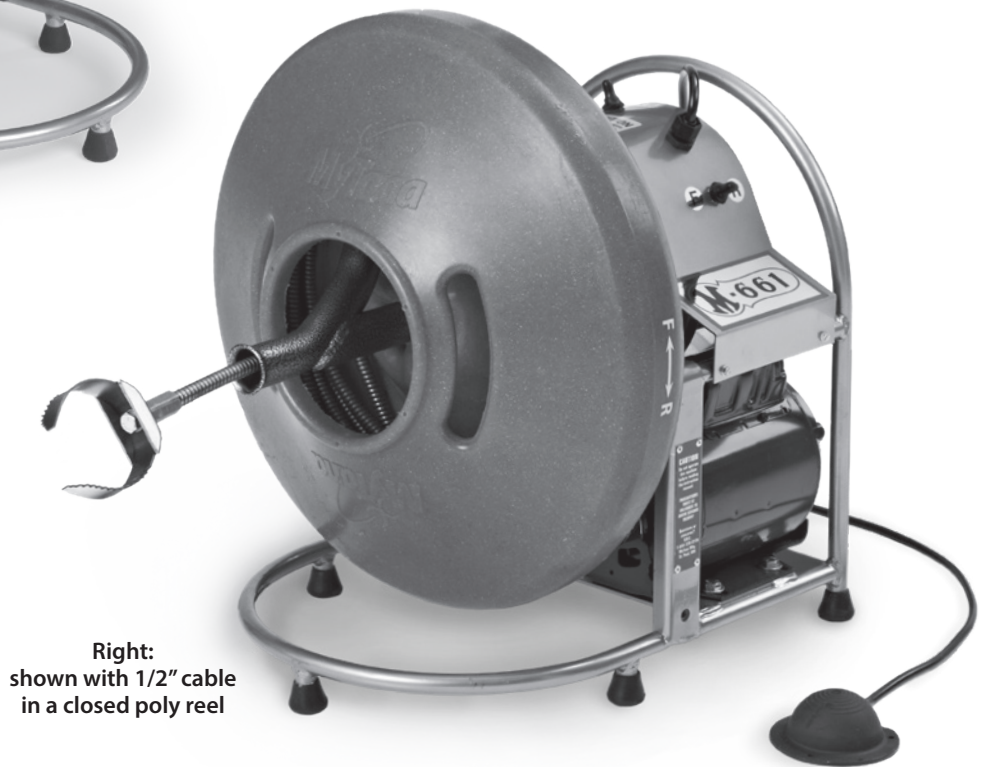
Please inspect your machine carefully upon receipt.  
Let us know immediately if you note any damage.



Above: shown with 3/8" cable in an open steel reel



M661 base unit: no cable, reel or rev arm



Right:  
shown with 1/2" cable  
in a closed poly reel

102722

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## **-IMPORTANT NOTICE-**

**THIS MACHINE IS NOT TO BE OPERATED BY ANYONE UNTIL HAVING CAREFULLY READ THIS INSTRUCTION BOOK ON ITS USE.**

**IF ANYONE ELSE THAN THE ORIGINAL BUYER OF OUR EQUIPMENT IS TO USE THE EQUIPMENT, THEN HE / SHE IS TO BE FURNISHED WITH AN INSTRUCTION BOOK.**

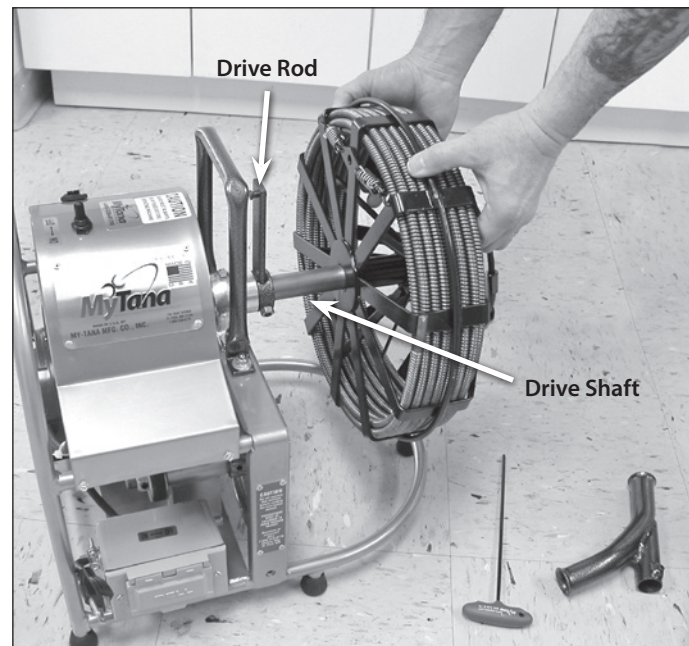
Download new and/or additional instruction books at  
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or call us at 800-328-8170 and we will mail you a new one.

## **Assembly of the M661**

### **Step 1**

Slide reel onto drive shaft.



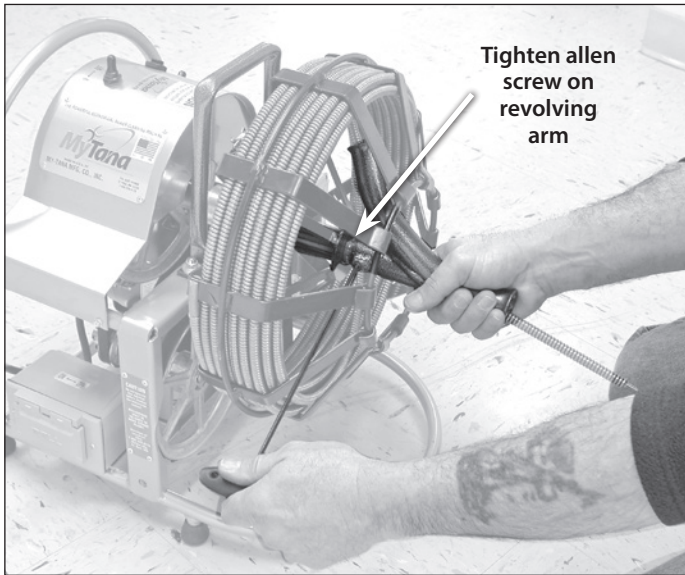
### **Step 2**

Pull the cable out of the reel and push it through the long side of the revolving arm.



## Step 3

Place the arm on the drive shaft. Using an allen wrench, tighten set screw on the revolving arm to the drive shaft.



## Step 4

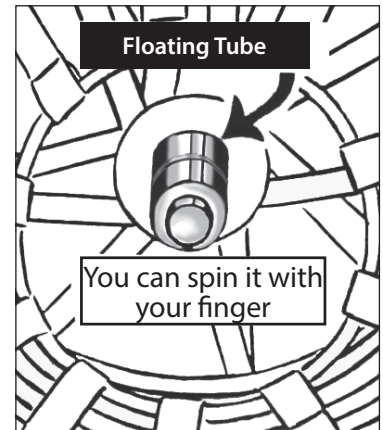
Attach the drive springs to the drive rod using the cleat.



## FLOATING TUBE

When attaching the reel, you will notice an independent spin collar on the front of the shaft called a floating tube. The revolving arm rides on this tube, allowing the arm to rotate independently of the reel, which is necessary for good performance.

This floating tube usually does not need too much attention; however, should it start to bind, put oil under and around it by hand until it rotates freely again.



## Step 5 (optional)

See separate instruction sheet if you will be installing the Mini Autofeed/Retriever and Large Hoop on to the M661.

**Your machine is now assembled except for attaching the blade / end tool.**

- **Wait to attach blades to cable until you have the machine in place at your pipe-opening or clean-out.** The blades are sharp and are potentially dangerous if left on during transportation. Always remove blades after you have completed the job.



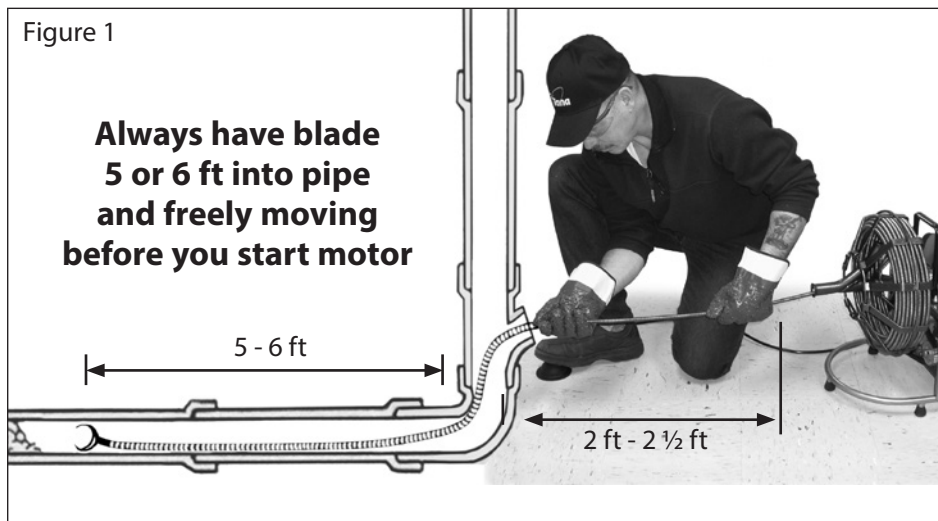
**ALL OPERATORS** Read the operating instructions on these pages **BEFORE** operating equipment.

## Operating Instructions

► **BEFORE STARTING** your first job – Read the paragraph on “**Building up Torque**” (opposite page)

► **SHUT OFF THE MOTOR WHEN NOT IN USE** – Never walk away from the machine when it is running

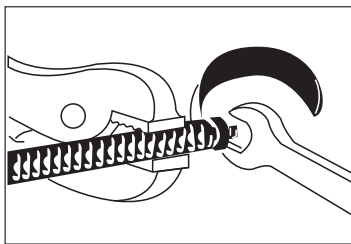
► **SAFETY** Operators should wear protective eyewear and heavy-duty gloves when operating this machine. Tuck in any loose clothing and tie up long hair.



### Placement

For the best performance **place the machine about 2 or 2 ½ ft** from the opening of the pipe (Figure 1). As the operator gains experience, he may find it more comfortable to vary the distance, but **ONLY SLIGHTLY**.

### Attaching the blade or end tool



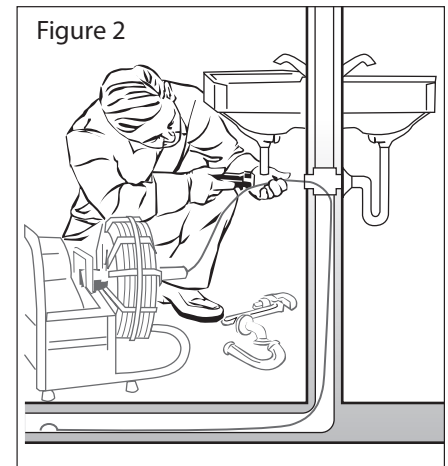
Attach the blade securely to the front of the cable. Failure to do so results in the blade slipping on the front of the cable.

Try not to over tighten – you could twist the

end off – just make sure it is secure. Use lock-washer.

Always begin the job by first using one of the smaller blades. Clean out obstructions thoroughly, then if necessary, use a larger blade.

Remove the blade when you finish cleaning the line, and move on to the next job.



### Before Starting the Machine

If working under a sink be sure to start the cable in the right direction. As you will notice in Figure 2:

- the vertical pipe inside the wall also serves as an air vent – if the cable is not started downward, it will go up and out through the vent
- the same care should be taken when two sinks are back-to-back with a wall or partition between them – if not started downward into the vertical tee in the wall, the cable might go directly into the other sink

Insert the cable (with blade attached and before starting the machine) into the pipe opening, and **push it 5 or 6 ft in to the opening**. If you find it somewhat difficult to get it past a bend by hand, use a twisting action.

Once the cable is in the pipe about 5 or 6 ft and able to move freely (Figure 1), you're ready to start the machine.

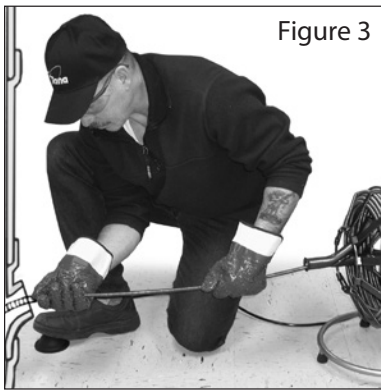


Figure 3



**Never hold  
cable like this.  
It is dangerous**

## Start Up

Turn the foot pedal switch "on". When you start the machine, place one hand on the cable close to the machine and the other close to the opening as in to prevent any throwing of the cable (see Figure 3).

As you depress the foot pedal, gently pull the cable out of the machine a little at a time. You will find that it will move forward into the pipe with minimal effort. Make sure to keep one hand on the cable as it slides through to prevent whipping or thrashing of the cable.

If you are using our Mini Autofeed/Retriever, refer to that manual for operation when starting out.

## Obstructions

When the blade hits an obstruction, it can be readily felt by the operator. Give the blade a few seconds to release.

When the operator has had sufficient experience, his "touch" will tell him the extent of torque allowed to build in the cable before pulling back from the obstruction. However, **inexperienced operators** should be cautious and allow about 5 seconds for the blade to release.

- If it doesn't release, pull the cable back just enough to clear the blade, allowing it to move freely again
- Freed blades spin very fast. By carefully allowing the rapidly rotating blades to "jump" forward into the obstruction, the cutting action will be more effective and will shorten the length of time on the job
- Repeat until you have reached the end of the pipe

## Difficulties

If at anytime the cutting blades become stuck and cannot be released, turn off the switch.

Hold cable close to the machine to prevent the cable from coming out. Continue holding cable with one hand and unhook the spring cleat on the back of the reel with the other hand. Let the reel spin backwards, removing the

strain on the cable. After the reel stops, spin it backwards a few more turns. This may release the obstructions that can be wrapped around the cutting blades.

When the cable is released, pull it out of the pipe, clean off any obstruction accumulated on the blades or cable, and insert it into the sewer again, still using the smaller blades.

## Finishing the Job

When you have created an opening through the blockage, turn on the nearest faucet to help flush out any remaining debris. Make several passes through the pipe while flushing thoroughly to ensure a complete cleaning of the drain pipe.

Withdraw the cable gently and feed it back in to the machine (or use the AutoFeed/Retriever), the cable should stack snugly into the outer diameter of the reel.

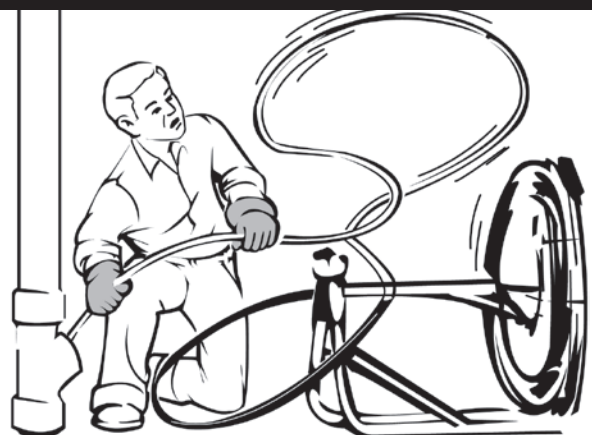
- **Do NOT use reverse rotation of the reel** to re-wind the cable into the reel.

## Building up Torque

As the reel revolves, it generates power and stores up energy in the cable, which when released, allows the blade to travel at a much higher rate of speed.

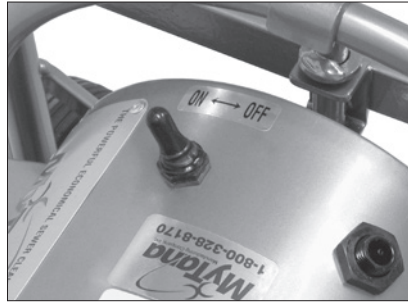
When the revolving blade comes in contact with an obstruction and it cannot cut through within about 5 seconds, or at all, the cable naturally continues to wind up with the rotation of the reel. This wind up builds up torque, or tension, which acts as a powerful spring motor. If too much tension is allowed in the cable, it will lash in the operator's hands or can whip widely and dangerously out of control (see below). The torque build up is an extremely powerful force and the operator must always be warned of it's potential danger.

### NEVER LET THIS HAPPEN



## Helpful tips

The **toggle switch** on top of the belt guard, labeled ON-OFF, is a safety switch. It must be in the ON position to activate the pneumatic foot switch.



The **pneumatic foot pedal** must have pressure on it to engage the pneumatic switch (found at the end of the hose on the belt guard).

Push on pedal to activate machine; remove pressure to stop machine.

The foot pedal and hose may need to be replaced from time to time (parts are available, call us or visit MyTana.com).

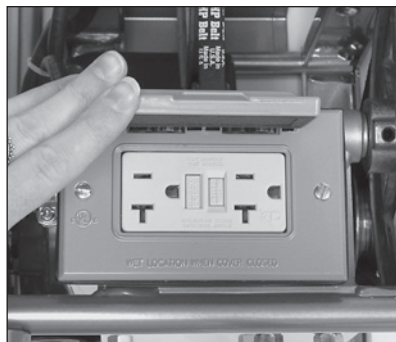
Simply loosen pressure nut on the end of the hose and pull upward to remove foot pedal unit from the pneumatic switch.



To help increase the longevity of your pedal/hose place your foot on pedal directly opposite the hose fitting.



The machine is protected by a **GFCI receptacle**. If the electronics of the machine sense too much moisture around the motor or switches, the reset button will snap out. Correct whatever is causing this problem (i.e. machine sitting in water; or electric cord is near moisture; or water splashed onto motor or switches) before resetting the GFCI. The reset button needs to be pushed in all the way to re-engage the GFCI function.

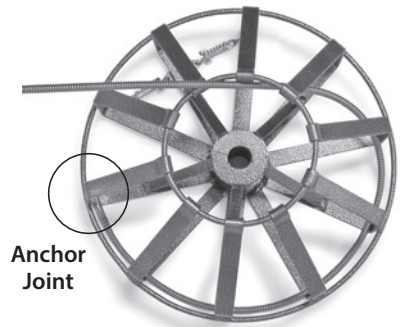


### To fill a reel with new cable

#### For open reels:

Attach the Anchor Joint to the threaded end of the cable, then secure the Joint to the spoke of the open reel

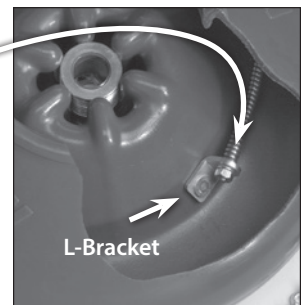
Push cable in to reel COUNTER-CLOCKWISE (when facing reel)



#### For closed reels:

Put the threaded end of the cable into the L-Bracket, secure with washers and nuts.

Push cable in to reel COUNTER-CLOCKWISE (when facing reel)



**On both styles:** Stack cable evenly into the reel avoiding loose or "sloppy" loops.

► **Reels MUST be filled COUNTER CLOCKWISE** (when facing reel)

The cable needs to stack to the outer diameter of reel to maximize performance during operation of machine.

Replacement cable and reel fittings are available on our website, MyTana.com

## Routine Maintenance

- After every 5-6 uses, fill the oil cups on both the front and back pillow blocks with oil (standard motor oil that you already have in an oil can is fine).
- Occasionally remove the revolving feed arm (the guide tube at the front of the machine that the cable slides through) and oil the **floating tube** (see illustration on page 3). It is important that this tube does not bind to the main shaft so that the revolving arm can always spin independently from the rotation of the reel.
- Over time, some of the set (hex) screws that hold the four belt pulleys in place might loosen slightly. Check these occasionally with your Hex wrench to make sure they are snug. Don't over tighten!
- Cable care – If you are not using your machine every day, treating your cable with a cleaner / rust inhibitor will extend cable life dramatically. You can also hose down the cable (remove reel from machine to do this) and spray it with WD40 or any light oil.
- Make sure that the cable stacks to the outermost part of the reel when returning cable to the reel. This helps prevent kinking or twisting inside the reel.
- If a cable becomes kinked or wavy due to fatigue or over-stress, either repair the cable with splicing cores, or replace the cable.

## Replacement cable

Cable for the M661 is available in loose sections, or pre-loaded in to MyTana reels.

Installed ends are available:

- 1/4" - 3/8" cable: choose from threaded male or slotlock (General) style ends
- 1/2" cable: choose from threaded male, slip-joint, interlocking, slotlock (General) or Ridgid style ends

*(installed ends are required on wire-core cable).*

**REO Units** Cable pre-loaded in to reels. Open steel, or closed poly reel options available.

Product Name	Cable size	Lengths available
<b>REO106 *</b>	1/2" cable	80ft 100ft
<b>REO105 *</b>	3/8" cable	50ft 80ft 100ft
<b>REO104 *</b>	5/16" cable	40ft 80ft
<b>REO103</b>	1/4" cable	25ft 40ft 50ft

**Cable sections** Replacement cable only

Product Name	Cable size	Lengths available
<b>C213 *</b>	1/2" cable	80ft 100ft
<b>C214 *</b>	3/8" cable	50ft 80ft 100ft
<b>C215 *</b>	5/16" cable	40ft 50ft 80ft
<b>C216</b>	1/4" cable	25ft 40ft 50ft

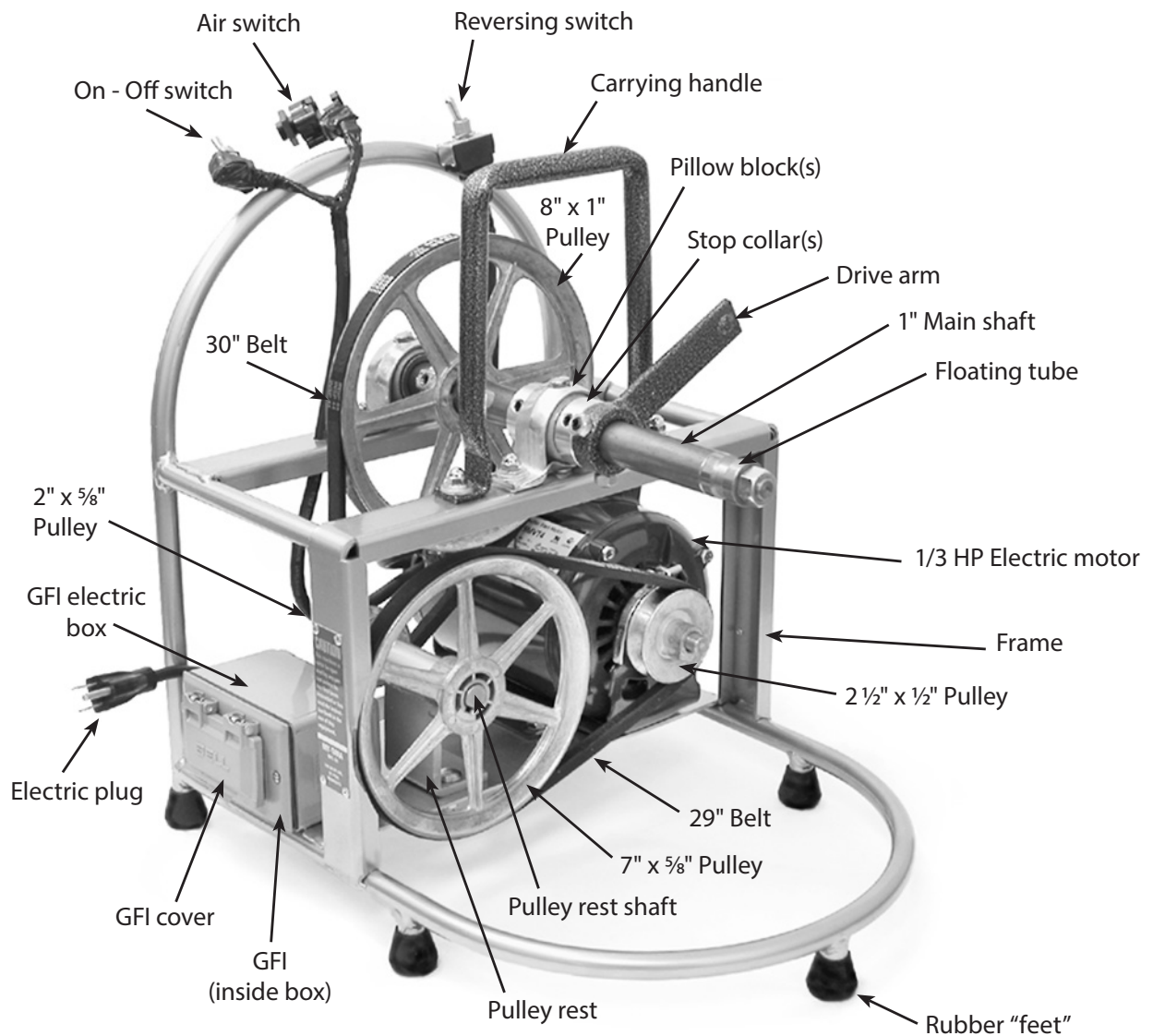
\* Hollow-core or wire-core available

Empty reels to fit the M661 and reel fittings also available separately.

**Order cable and reels online  
at [mytana.com/cable](http://mytana.com/cable)**



# MyTana M661 – Parts Breakdown



Foot pedal and hose



Belt guard



Revolving arm (REVARM-M661)



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