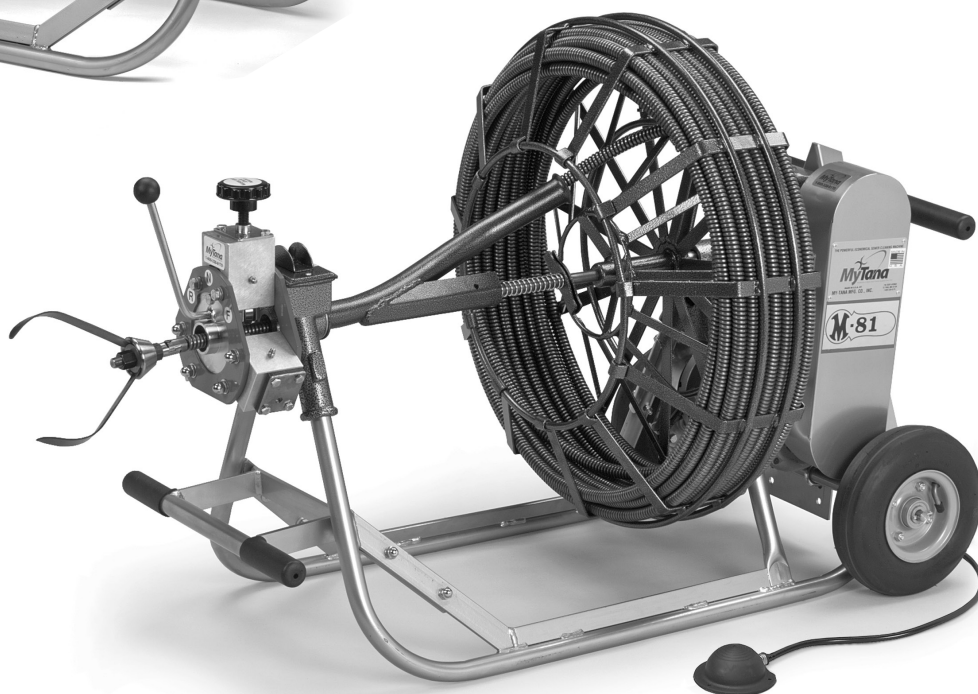




# M844 & M81 Owners Manual



**M844**



**M81**

041917

**Manufacturers of Quality  
Sewer & Drain Cleaning  
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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 or SHE IS TO BE FURNISHED WITH AN INSTRUCTION BOOK.**

**TO REQUEST NEW AND/OR ADDITIONAL INSTRUCTION BOOKS PLEASE NOTIFY US AT:**

**MyTana Mfg. Co., Inc.  
746 Selby Ave  
St. Paul MN, 55104  
(651) 222-1738 (800) 328-8170**

**STATE WHAT MODEL MACHINE AND WE WILL IMMEDIATELY MAIL A COPY OF INSTRUCTIONS.**

**The model number of this machine is**

**M844      M81**

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This manual contains user information for both the M844 and M81 machines.  
Take a minute to note which model you have in the space above.

### **Included you will find:**

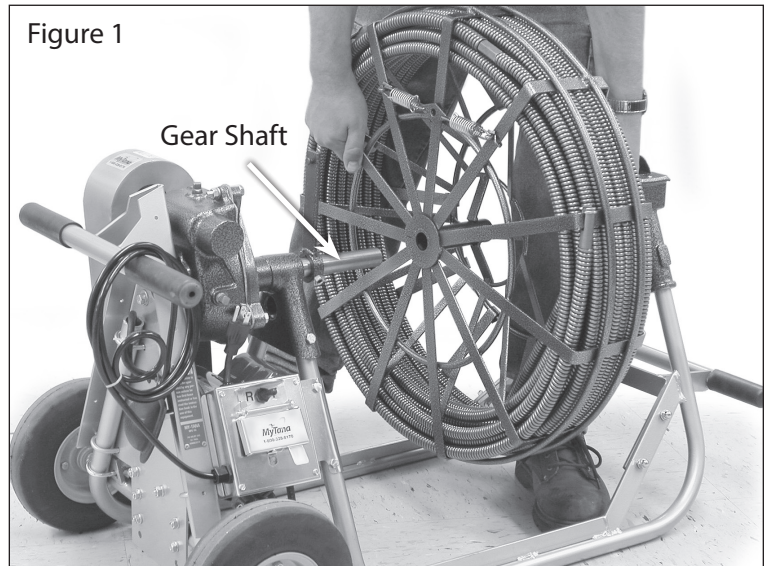
Set up and operating instructions  
Troubleshooting information  
A parts list for each model  
Warranty information

# Assembly and Operating Instructions

## Assembly

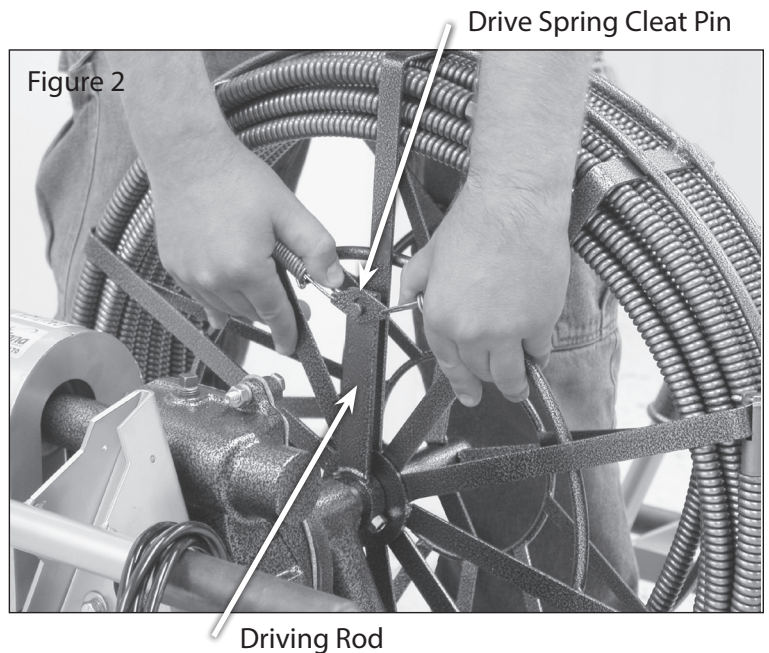
### Step 1

Mount reel onto machine by grasping it firmly and lifting it up so that the back center of the hub aligns with the main gearbox shaft. Slide reel all the way onto shaft. (Figure 1)



### Step 2

Fasten the drive spring at the back of the reel to the driving arm (rod) which extends from the main shaft. The diamond shaped piece at the center of the drive spring simply slips over the pin at the top back side of the driving arm. (Figure 2)



### Step 3

#### Revolving "Feed" arm

Carefully pull end of cable out through open side of reel. Holding revolving arm in one hand and cable in the other hand, push cable through curved end of arm in a twisting motion. Push cable up to front end of revolving arm. (Figure 3)





## Step 4

Insert the combined revolving arm and cable into the opening in the head casting below the front toggle switch. Then, at the other end of the revolving arm, pull back on the center spring loaded shaft of the arm and insert into the hole at the front center hub of the reel.

- ▶ With the new J-Lock style revolving arm you can lock the center shaft back and out or your way at anytime during assembly. However, release the arm out of the J-Lock in this step. (See Figure 4).

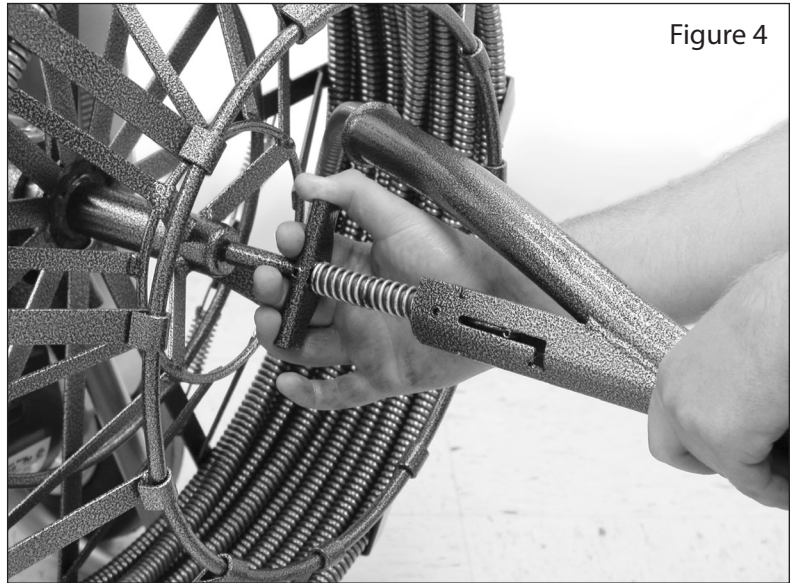


Figure 4

## Step 5

Your machine is equipped with an air-actuated foot switch, attach the air-hose to the air-switch stem (on the M81 protruding from electrical box next to motor; on the M844 protruding from the electrical box mounted to belt guard) and lock it in place with the pressure nut that is at the end of the hose.

- ▶ Step 5 is usually completed at the factory before your machine is sent.

## Step 6

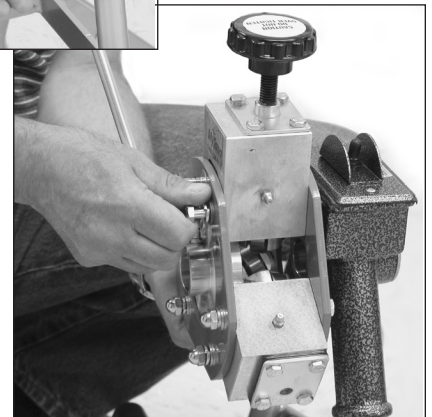
If you ordered an Automatic Feed/Retriever, attach that to the front casting of your machine at this time. The silver bracket at the back, bottom side of the Auto Feed slips under the flange of the front machine "head" casting. Then secure into place by threading the top two bolts on the Auto Feed into the two holes on the front, face side of the head casting on the machine (See Figure 5). See additional instructions for operations and maintenance of Automatic Feed/Retriever.



Figure 5

**The machine is now assembled except for attaching a blade to cable.**

- ▶ **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.**

## Operation

**NOTE: Before starting your first job, please read the paragraph on “Building up torque” on page 7.**

When operating the machine, place it about 3 feet from the opening in the pipe. An experienced operator may find it more comfortable to vary the distance, but only slightly (See Figure 6). Any of the single-unit blades may be used, but it is best to use a blade much smaller than the inside diameter of the pipe or sewer to begin the job. When the desired blade has been attached to the cable you are ready to start operation.

Remove the clean-out plug and insert the cable, with blade attached, into the pipe by hand with a twisting motion. When you have passed the bend, continue to rotate and push the blade about 5 or 6 ft into the pipe, making sure it is not caught or bound so that it can rotate freely. (Figure 7)

- ▶ **DO NOT** start machine before inserting blade 5 to 6 ft into pipe.

## Start Up

When starting the machine, the operator should have his foot ready to press on the air-switch foot pedal.

You can aid the startup by rotating the reel with your hand in a **counter-clockwise direction** while pressing on the pedal. This allows for much easier starting and longer life for the motor. (See Figure 8)

- ▶ The **front toggle switch** must be in the “on” position for the foot pedal to work.
- The **forward reverse switch** should be in the forward position, even when pulling (retrieving) the cable out of a line.

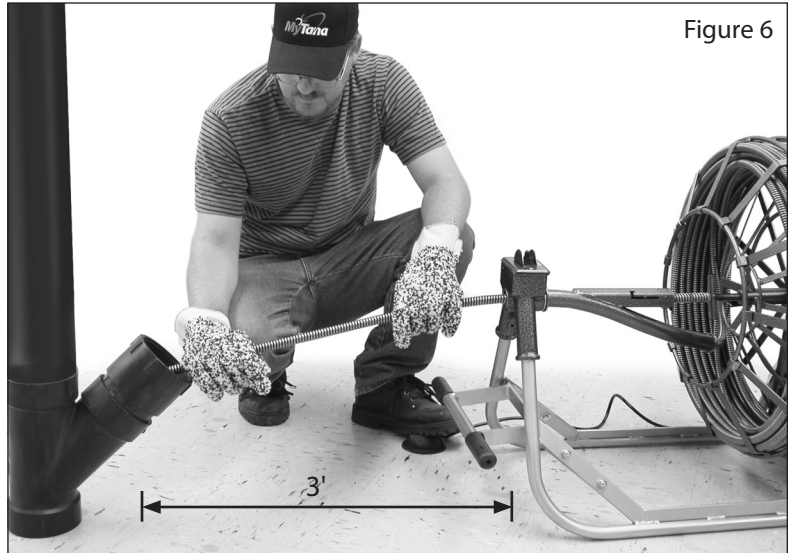


Figure 6

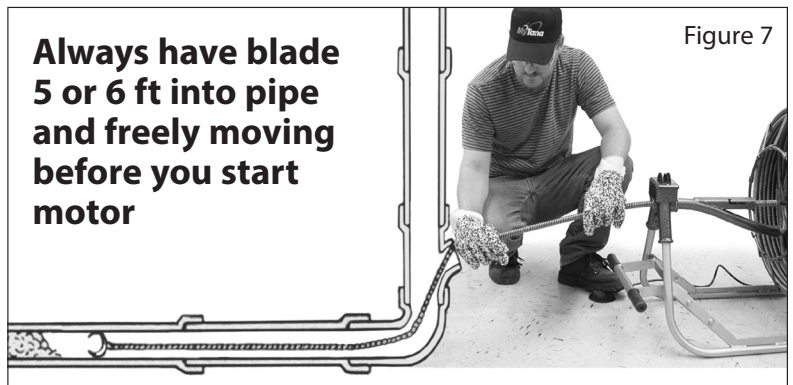


Figure 7

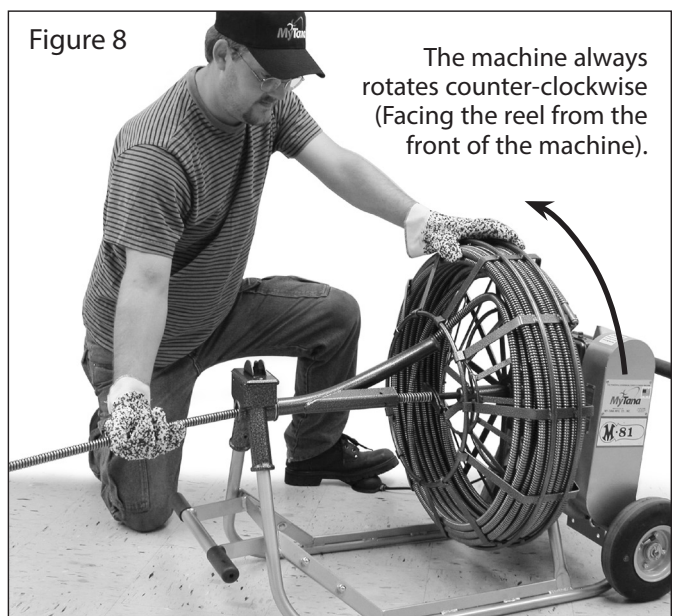


Figure 8

The machine always rotates counter-clockwise (Facing the reel from the front of the machine).

As you operate the machine, place one hand on the cable close to the switch (See Figure 9 ) to prevent any throwing of the cable.

Gently pull the cable out of the machine a little at a time. You will find that it will move itself into the sewer.

When the operator has had sufficient experience, his “touch” will tell him the extent of tension to allow the cable before pulling back from the obstruction; however, inexperienced operators should be cautious and allow the cable only about 5 seconds to cut through. If the blade doesn’t release, pull it away from the obstruction and try again. The freed blades spin rapidly when torque is released. Use the combined force of the reel rotation and cable torque to optimize your cutting power. This action will be more effective and will shorten the length of time on the job.

## Difficulties

If at anytime the cutting blades become stuck and cannot be released, shut off machine immediately and hold cable close to the switch to prevent the cable from coming out of the machine. Continue holding cable with one hand and unhook the spring cleat with the other hand (See Figure 10). 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 the cable 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. Larger blades can be used after the smaller ones have been through the full length of the pipe.

## Obstructions

When the blade hits an obstruction, it can be readily felt by the operator. Give the blade a few seconds to release; if it doesn’t, pull back the cable just enough to free the blade, allowing it to rotate freely again. Continue this until you have reached the end of the pipe. Withdraw the cable gently and feed it into the machine, where the same counter-clockwise rotation will re-wind it snugly into the reel. **SHUT OFF THE MOTOR AND CHANGE BLADES!**



Figure 9

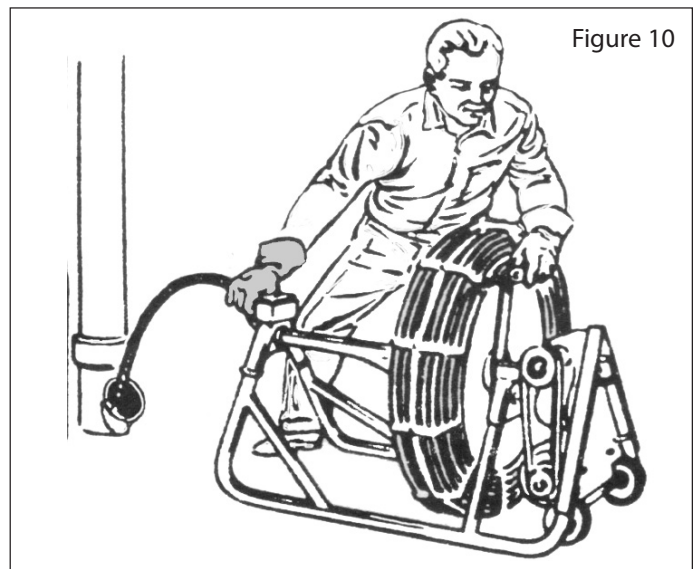


Figure 10

**Always remember to stack the cable snugly against the outer diameter of the reel while operating the machine**



After the first opening is made, turn on the nearest faucet so that water will flush the loosened debris. Allow the water to run continuously during the entire job. Follow the first opening with slightly larger blades until you can use a blade that will actually scrape the sidewalls of the pipe or sewer.

Each job is a new problem in itself, and the operator will master each situation as it arises. Mastering the operation of the machine can be sped up by carefully following these simple rules during and on-the-job operation.

**DO NOT LEAVE MOTOR RUNNING UNATTENDED!**

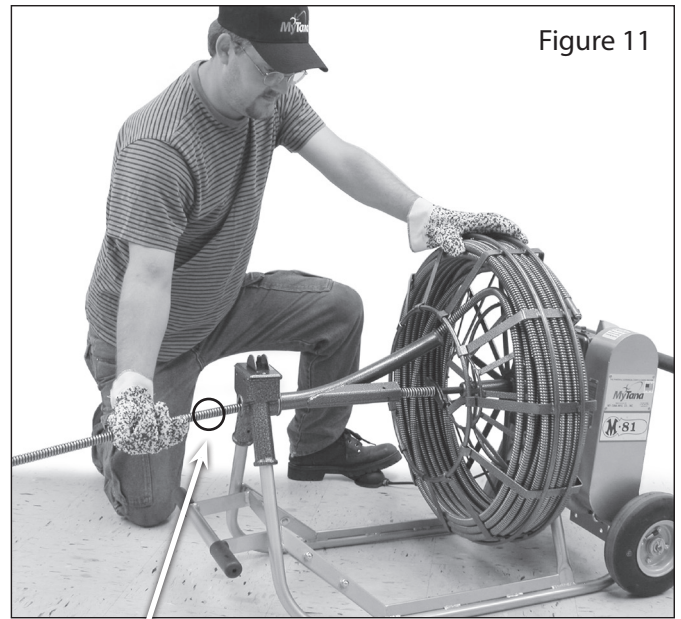


Figure 11

When reel is almost empty, fitting should be about in this location. Take apart and push stub back into reel.

## **CAUTION - READ CAREFULLY!!**

### **Building up Torque**

As the reel revolves, it generates power and stores up energy in the cable if the blade at the front of the cable has been stopped by an obstruction.

When the rotating blade contacts an obstruction that it cannot cut through quickly, 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 wildly and dangerously out of control (See Figure 12).

**Torque build up is an extremely powerful force and the operator must always be warned of its potential danger.**

### **NEVER LET THIS HAPPEN**

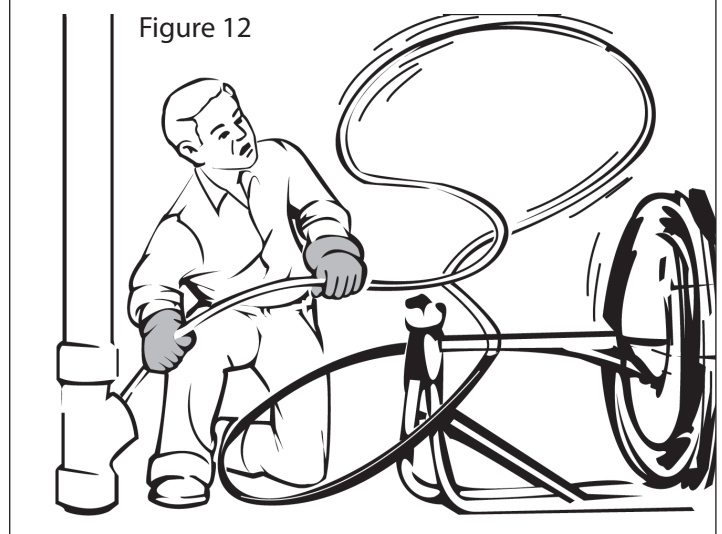
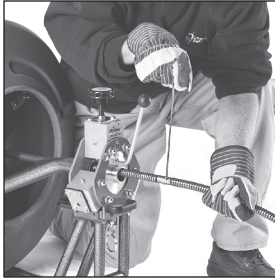


Figure 12

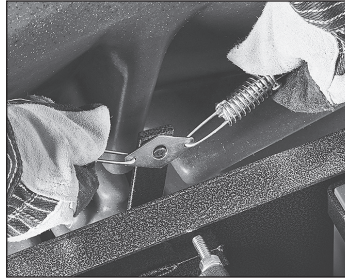
# Reel Change Quick Guide



Disconnect backend cable



Release revolving arm

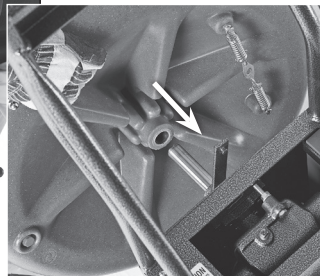


Unhook drive spring from cleat on drive arm. No Belt!



Change reels

Slide empty reel off



Slide new reel on



Re-engage revolving arm



Hook drive spring over cleat on drive arm

## Splicing Cables No welding necessary

**NOTE: When ordering splicing cores or male ends, please specify the size cable they are for.**

1. When splicing, the ends of the cable should be ground so that when put together it should hardly be noticeable. DO NOT spread the cable if it is difficult to start the core. Instead, grind the tip of the core slightly, but ONLY THE TIP, as it must fit tightly into the cable.
2. Clamp one end of the cable vertically into a bench-vise, with the end of the cable about 2" above the vise. Screw half the core into the cable counter-clockwise. Now lower the same cable so that the end will be even with the top of the vise, still pointing upward, and so that only the exposed half of the core is above the vise. Tighten the vise as much as possible to prevent the core from being unevenly divided when joining the other cable.
3. Turn the other cable (counter-clockwise) onto the exposed half of the core, making sure that both ends of cables fit tightly against each other.
4. The same procedure applies when inserting the core of a male end into a cable.

### SPLICING cables get you bent out of shape?



See our how-to video on this process at

[YouTube.com/videoMytana](https://www.youtube.com/videoMytana)



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