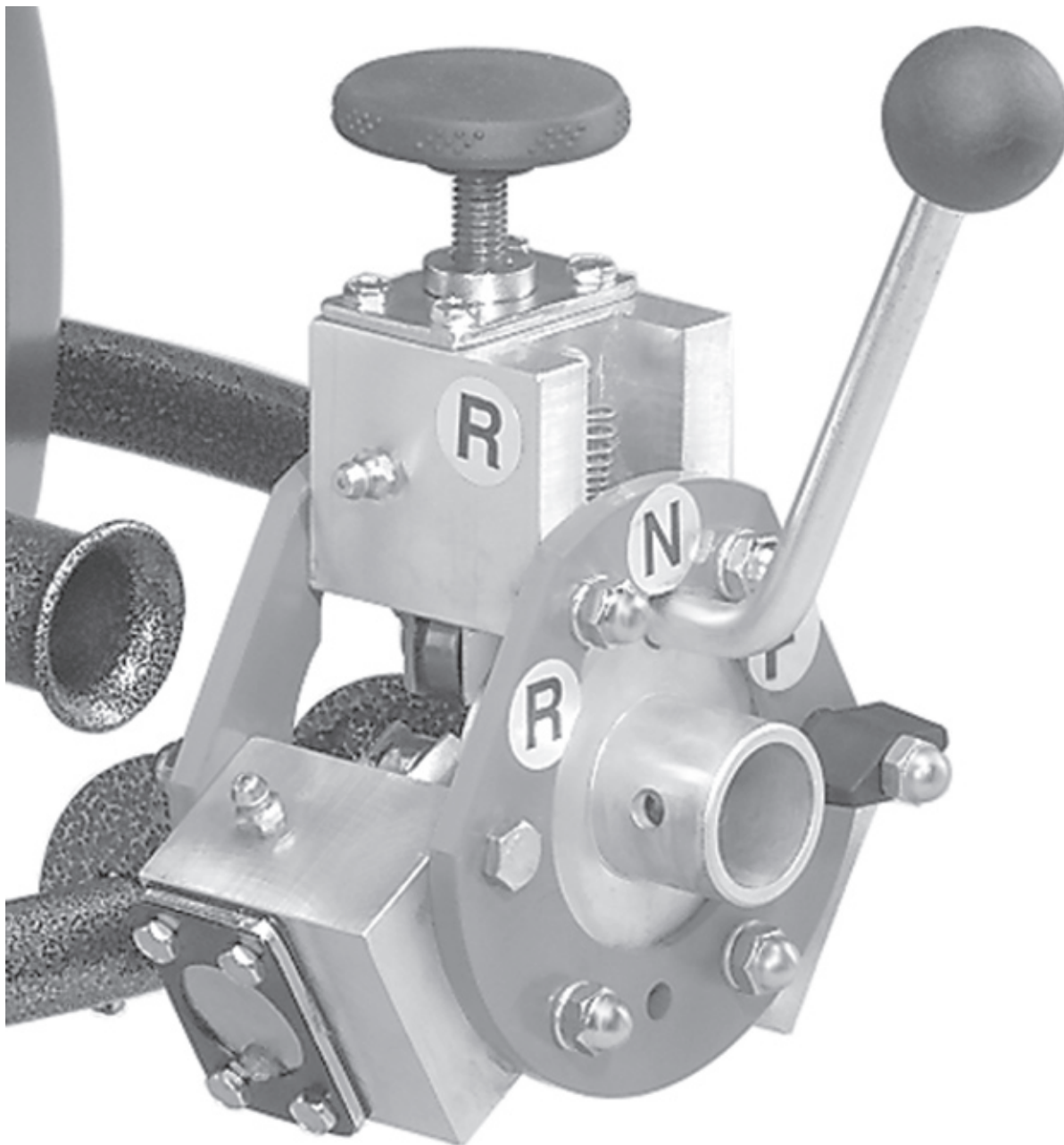




*Manufacturers of quality sewer
cleaning equipment since 1957*

Operation & Maintenance Instructions *for the Mini-Automatic Cable Feed/Retriever*



Installing the Auto Feed onto your machine

The hoop frame is designed to be added or removed quickly by simply dropping over the top front channel bar of the machine frame. Install by placing hoop frame over horizontal front of machine at an angle so that the top of hoop frame “hooks” into place. (Figure 1) Push front of hoop frame downward and pull outward on the plunger-style lock pin on bottom right hand corner of hoop frame. Release pin into locking hole that is drilled in machine frame. (Figure 2)

The Auto Feed attaches to the hoop frame via the small L-shaped bracket mounted onto rear of Auto Feed. (Figure 3) Slide Auto Feed bracket into channel of the mounting bracket on the front of the hoop frame. Tighten thumb screw to lock Auto Feed bracket into place. (Figure 4)

NOTE: The hoop frame can be installed or removed with the Auto Feed mounted onto it if so desired. The Auto Feed is made to be easily removed for changing reels of cable or to enable easy access to revolving “feed” arm.

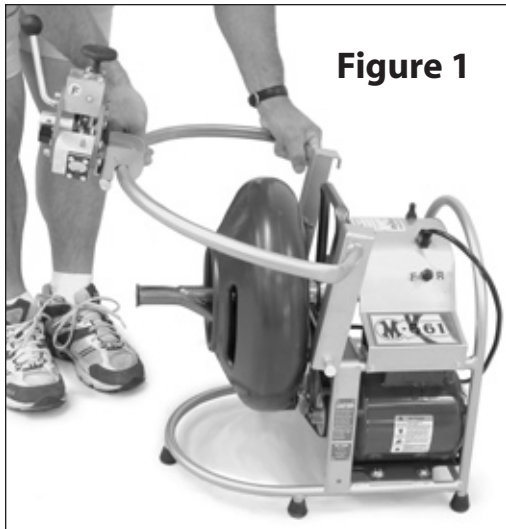


Figure 1

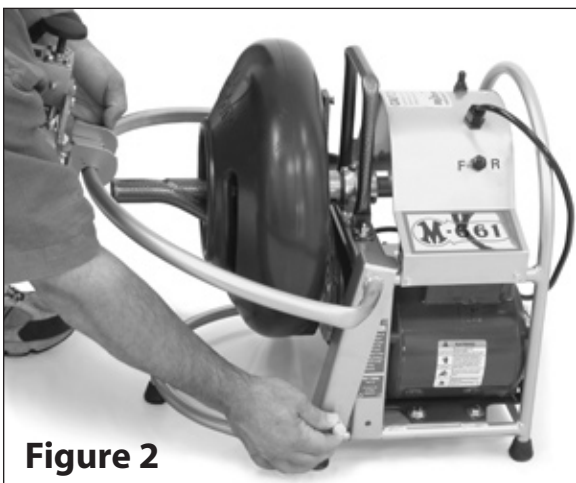


Figure 2

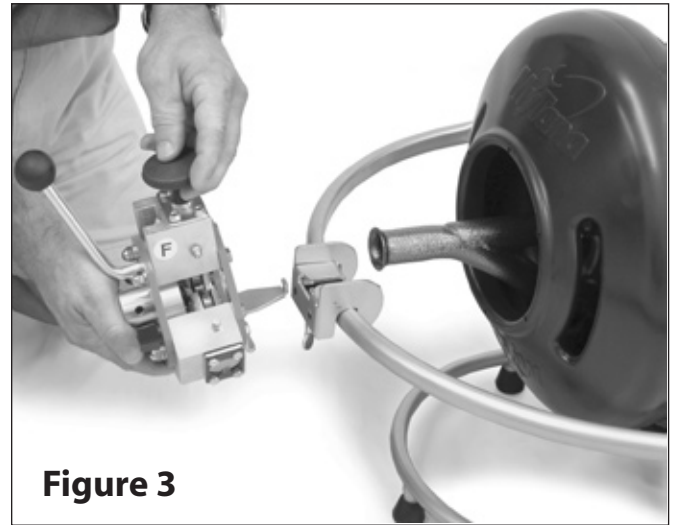


Figure 3

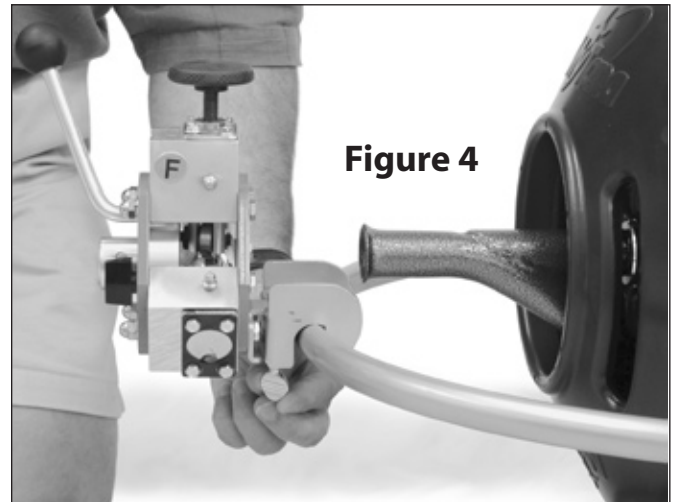
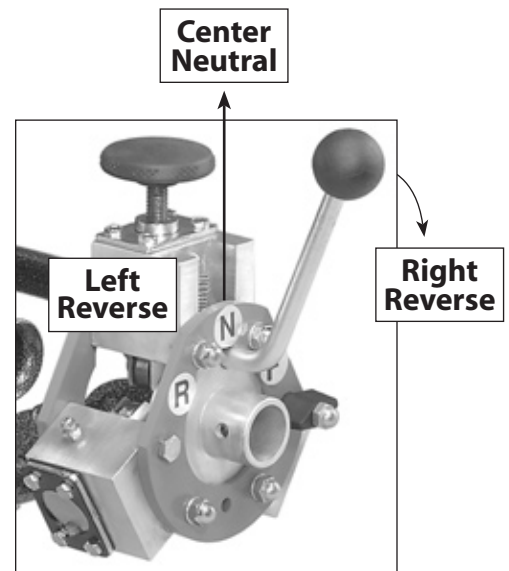


Figure 4



Spacers

The spacer plates at the bottom end of the lower two cylinders on the Auto Feed determine the proper spacing to maximize the grip of the drive wheels on your cable. Normally, the correct spacing is preset for the cable you will be using. However, double-check to make sure that the spacing is correct, or adjust accordingly by using the chart below. (See schematic if adjustments are required)

Cable Size	Spacers Required
1/4"	1
5/16"	1
3/8"	2
1/2"	2

General Operation

Using the Automatic Cable Feed/Retriever

NOTE: MyTana machines tend to push cable forward, out of the machine. For this reason, we recommend manually feeding the cable into sewer lines and manually cleaning the obstruction.

1. Disengage auto feed (by loosening screw knob on top cylinder) and insert cable into pipe opening several feet before turning on machine. Do not try to insert a spinning blade into a sewer line!

2. If you choose to use the Auto Feed for pushing cable into the sewer line (see "**NOTE**" above), move the feed lever about 10 degrees toward the "F" and turn on your machine. Turn the screw knob on the top cylinder to the right until the cable starts to move forward. Do **not** tighten the knob more than is required to move the cable forward. Push lever fully into the forward position. Proceed with caution, keeping in mind that it is essential that the cutting blade not be forced through an obstruction using the forward force of the Auto Feed!

3. When your blade finds an obstruction it will usually stop the rotation of your cutting blade. If the blade does not release after several seconds of torque by moving the Auto Feed lever to the "R" (reverse) position instructions from your machine operations manual for releasing a stuck blade. The most efficient cleaning is achieved by learning how to use torque build-up in your cable without over-torquing to the point of damaging cables or blades.

The following tips will add life to your cable, blades and Auto Feed/Retriever

Avoid turning down the screw knob on top cylinder of feed too tightly. This causes excessive wear on cable and, if extreme pressure is applied, can impede the proper rotation of the cable through the Auto Feed. This will cause the cable to stack loosely into the reel, rather than snugly against the outer walls as it should. Over tightening can also break feed wheels.

Do not run cable fittings (i.e. couplings, splicers, cable ends) through a tightened down Auto Feed. Again, this can break Feed Wheels. Release the Feed, pull fittings through manually and then re-engage.

Turn screw knob only as far as needed to move cable back or forth.

Bulb-Head Cables

Cables that are expanded at the front (often called bulb-head or open-hook) may require larger openings of the wheels allow. To accommodate this, a removable plastic wing nut is used on one mounting bolt on the bottom right cylinder of the Auto Feed. By loosening this wing nut and swiveling the cylinder downward a large enough opening is created to allow the expanded head of a cable to slide through. Once the larger head of the cable is through the feed, swivel the cylinder upward and replace mounting bolt and wing nut. (Figure 5)

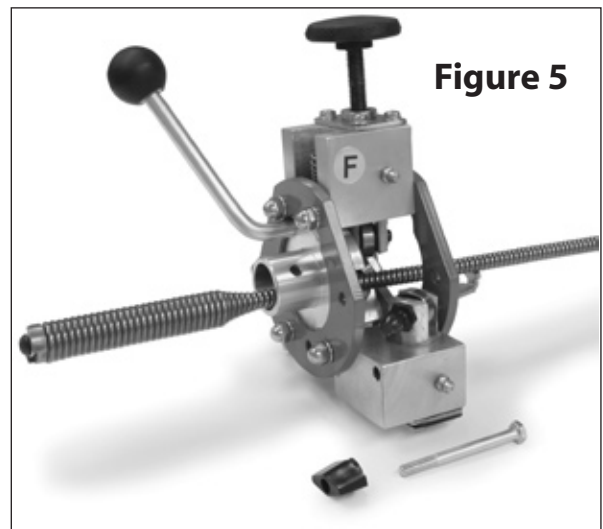


Figure 5

If the cable resists going forward or backward than one of several things is occurring:

A. You are hitting an obstruction. However, if torque does not start to build, you may be at an elbow or the blade may be hitting an offset or break in the sewer line. Apply some forward pressure manually to help you figure out what it is there.

B. The Feed Wheels are worn and need replacing.

C. There is debris hanging onto the end of cable and blade that is resisting retrieval. In this case manually help the Auto Feed pull the cable back into the reel, clear blade of debris and run cable through sewer line again to make sure all blockages are removed.

4. When the obstruction is removed, place the Auto Feed/Retriever fully in the “R” position until you hear the blade nearing the pipe opening. Disengage Feed (by turning screw knob to the left) shut off machine and pull the blade out of the pipe opening.

Lubrication

As with any mechanical device, proper care will maximize the life of your MyTana Automatic Feed/Retriever. Keeping it clean and properly lubricated is essential.

The Feed unit has been greased at the factory. However, routinely continue to grease all housings equipped with zerks (grease fittings).

Remove front disc periodically, clean and lubricate. Free movement of the front disc is crucial to proper movement of cylinders and drive wheels.

Replacing Drive Wheels-See schematic (also called Drive Bearings)

1. Remove Auto Feed from machine
2. Remove six acorn nuts and lockwashers
3. Remove front disc and movement assembly
4. Slip cylinder housing (whichever one that needs new drive wheel) from hex bolts
5. Remove piston from housing (it will lift out of housing)
6. Remove clip spring that holds drive pin
7. Carefully pull out drive pin
8. Remove spacers and drive wheels
9. Clean all parts in cleaning solvent before reversing procedure to install new drive wheel(s).

NOTE: It is a good idea to clean up the cylinder housing at the time that you change drive wheels. Note that there is a thrust bearing with races at the bottom of each cylinder that needs to be cleaned periodically. These parts can be accessed by removing the spacer plates and end cap at the bottom of the housing.

Routine Maintenance

Watch for wear on drive wheels (bearings) and drive pins.

Make sure drive pins stay in designated slots on movement disc.

Remove debris (i.e. rags, string, hair) from cable before running through the Feed. This kind of debris can clog up the Feed wheels and movement parts rather quickly.

If Feed is not used for a period of time, lubricate before storage.

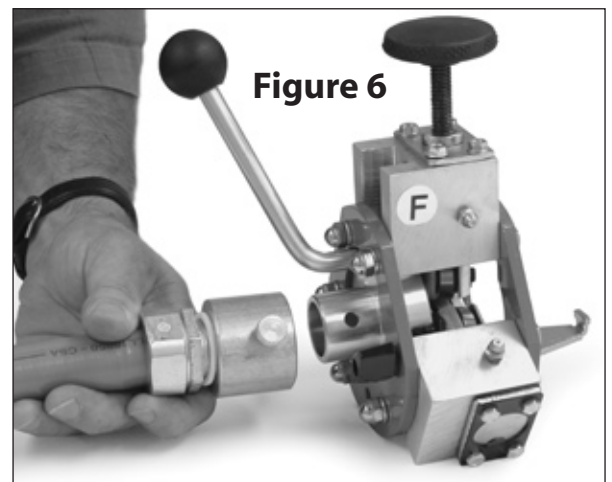


Figure 6 An extension “elephant” trunk is available for the front of the Auto Feed. The trunk is 4 feet long and is useful for guiding cable into overflows or when operator is unable to place machine near clean out.

Breakdown for the Mini-Autofeed/Retriever

Part #	Description	Qty Per Unit
AF-M100	Front disc	1
AF-M101	Rear disc	1
AF-M102	Mounting bracket	1
AF-M103	Hand knob	1
AF-M104	Movement assembly	1
AF-M104P	Movement stop pin	1
AF-M105	Upper end plate	1
AF-M106	Long (top) housing	1
AF-M107	Upper piston (hollow)	1
AF-M108	Spring	1
AF-M109	Pressure pad	1
AF-M110	Drive wheel (bearing)	3

AF-M111	Drive pin	3
AF-M112	Spring retainer	3
AF-M113	Spacer	6
AF-M114	Short housing	2
AF-M115	Lower piston (solid)	2
AF-M116	Thrust bearing	2
AF-M117	Thrust race	4
AF-M118	Spacer plate	2
AF-M119	Lower end plate	2
AF-M120	Conical spring	1
AF-M121	Plastic knob	1

