




MyTana MSA-, MS9-, MS11-NG2 and MS11+ Combo Kit User Guide

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MyTana MSA-, MS9-, MS11-NG2 and MS11+ Combo Kit



Please read these instructions and do a TEST RECORDING before you perform your first inspection in the field.

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Inspect your system carefully upon receipt.

Let us know right away of any damage you note.

Included with your purchase are:



- Removable USB (flash) drive
- WiFi Router (dongle) to establish wireless connection to your phone or tablet with our Viewer APP. Plugs in to USB port, see separate instructions for using Viewer APP.
- 3 sizes IceBalls (MS11-NG2 only)
- Mini SnoBall (MSA-NG2, MS9 & Combo Kit only)
- Interchangeable mini camera head, 4" IceBall, dielectric grease (Combo Kit only)

Warranty Information Inspection Systems

All products are warranted against defects in material and workmanship for one year from date of purchase. All products are individually tested prior to shipment. Damage due to negligence, abnormal usage, accidents, or alteration is not covered by this warranty.

Examples of damage not covered by warranty:

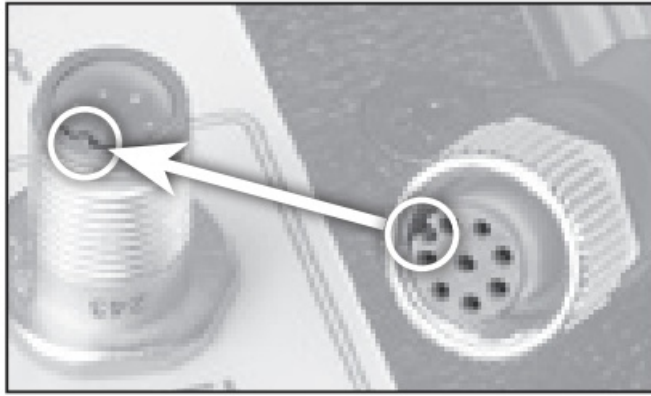
Damaged Connector Ends for NG connection style



If the camera head is disconnected for transport or to swap heads (using MS11+ Combo Kit), be sure to carefully align the push rod with the head and screw on until snug and there are no skipped threads. Don't over-tighten or use tools to tighten.

Damaged or Broken Connection Pins

- For our older systems with pin connectors on the camera head. We recommend keeping the head attached to the push rod at all times to avoid accidental damage to the pins.
- For our current PGR systems with a patch cord:
 - Carefully align the patch cord to the Control Box when connecting or you could break the pins. Follow instructions included with your system.



- The patch cord should NOT be disconnected from the push rod reel. Check occasionally to make sure it is snug

Broken Sapphire Window

The sapphire is nearly as hard as diamond; however it can break with extreme impact, especially on sharp edges of broken concrete or clay tile. Using our IceBall, Snoball or other protective guides greatly reduces impact to the camera head.

Damaged Pushrod

The camera should not be forced through blockages. The camera won't work if the wires inside the push rod become kinked, buckled or severed. Guides and running water can help reduce friction as you push the camera through a pipe.

Should repair be necessary, please call us first so we can issue a return call tag.

Ship your product to:

MyTana 746 Selby Ave Saint Paul, MN 55106 phone: 800-328-8170

Controls and Ports

CONTROL PANELS

POWER

Give the unit 30 seconds to fully boot up (MyTana logo will show when unit is ready to operate)

Blinking Blue light indicates low battery. It will blink for 5-10 minutes before battery fails.





TRANSMIT Generates 512hz signal at camera head for use with a Locator. This has nothing to do with Wi-Fi transmission.

LED CONTROL Full clockwise = full brightness

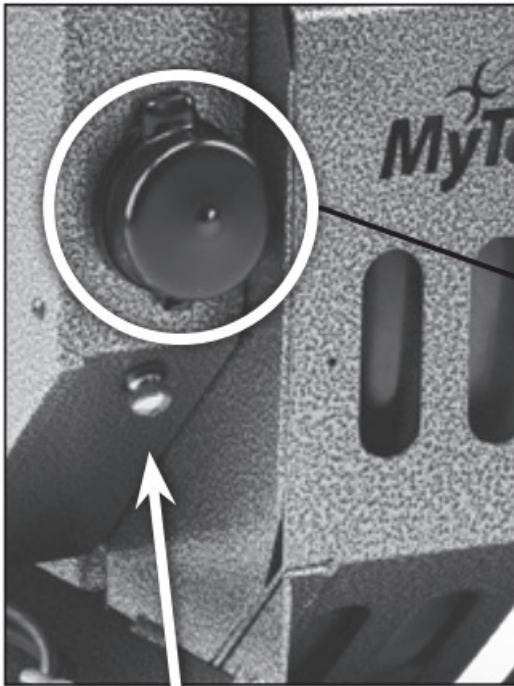
COUNTER RESET Resets on-screen footage counter to zero

Use these buttons for recording and working with files, see instructions on following pages.

The   arrow buttons are frequently used, and are indicated as ▲ ▼ in the instructions



USB PORTS



Ground Screw
can be used for grounding
purposes if needed.



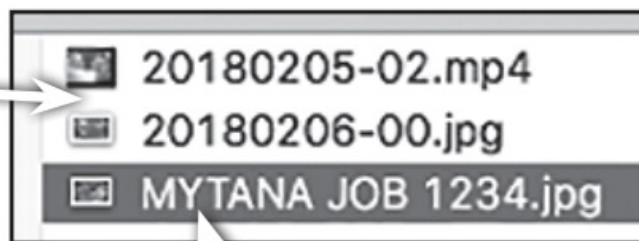
Operating the System

BASICS

We strongly recommend doing a test recording BEFORE you perform your first inspection in the field. Keep the shipping caps that are on the ends of the camera head and the push rod. Use them to protect these connections whenever you remove the camera head in the future.

Files

In this manual, the term
“**Files**” refers to your
recordings, whether video
(.mp4) or snapshots (.jpg)



You can customize
the names of files
in the Overlay
menu, see pgs 6-7
*requires a USB
keyboard*

File Naming – by default, files are named with the date (YYYYMMDD) and a numbering sequence (-XX)
ex: 20180205-02.mp4 – would be the third video recorded on Feb. 5, 2018 the first will be “20180205-00”, the second “20180205-01”, etc

Startup

- Push POWER button. Blue light around switch will glow.
Wait about 30 seconds for MyTana logo to appear.

Battery

Recharge the internal battery by plugging the unit in to a standard wall outlet. Store the unit with half charge and in cool temperatures to extend battery life.

Transmit mode drains battery more quickly, use this only when locating 512Hz signal from camera head.

Make sure the battery is charged up before field work.

Don't power the camera with a conventional generator, they produce power fluctuations that can ruin electronic circuitry.

RECORDING VIDEO

- Push REC/PAUSE
- Use the Control Panel arrow buttons ▲ ▼ to choose the drive you want to record to: Internal, External or Both.
If external, be sure to insert USB (flash) drive in USB port.
You can copy or move recordings to a different drive later. (see File Management menu selections next pages)
- Push MENU/OK to start recording.
Red dot appears on screen and timer will start.
- Push STOP/BACK to stop recording.

AUDIO

MUTE is the default setting for recording, meaning NO sound will be recorded (MUTE is ON if you see “MUTE” on the screen).

NG2 units have no speaker for playback, so sound can only be heard when playing back on a computer.

To Record Sound

- Push UNMUTE and “MUTE” will disappear from the screen, the built-in microphone is now active.

Make sure cover is removed, see image opposite page.

If a WiFi dongle/router is in one of the USB ports, it could cause sound interference while recording to either the Internal or an external USB drive.

Remove the dongle to prevent interference

TO TAKE STILL SHOTS

- Press the SCREEN SHOT button if you want still shots, (not available while recording video)

WIRELESS STREAMING

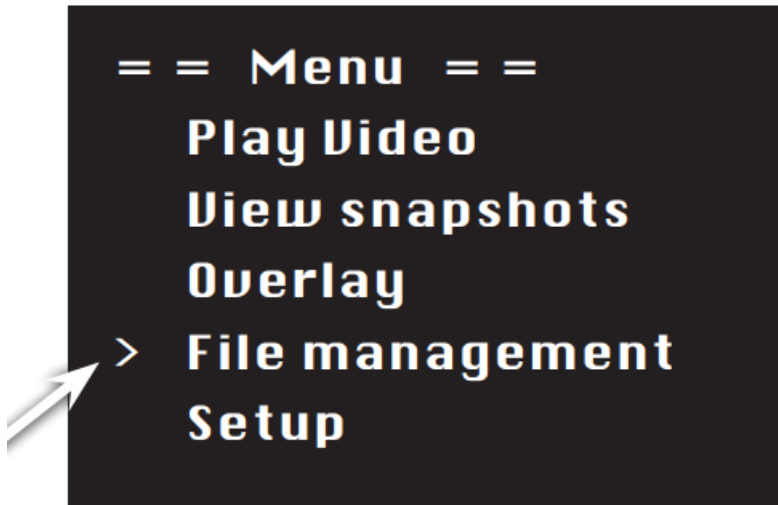
See separate Viewer APP instruction sheet for using WiFi operations.

Screen Menus

MAIN MENU

Push MENU/OK on the control panel to bring up the Main Menu on the screen.

Use the arrow buttons ▲ ▼ on the control panel to move the cursor to select any menu item.



Press STOP/BACK repeatedly to exit any menu and return to previous screens.

Play Video

View recordings by selecting the drive that you recorded to, Internal or external.

Refer to pg 3 for file naming information.

Use the ▲ ▼ buttons on the control panel to Fast Forward or REWIND during playback

View Snapshots

Lets you see static (.jpg) images – if you took snapshots rather than full video. See page 3 for instructions on how to take snapshots.

Overlay (see pages 6-7)

Lets you to add, change or move the overlays that appear on your videos or images.



Most tasks require a USB Keyboard to be connected to one of the USB ports

File Management (see right)

This is the menu where you will work most with your files.

You can copy, move, or delete files.

Setup

Lets you change the time and date in the unit. Your unit will arrive preset. If you wish to reset or change the time:

Select **Setup**, then **MENU/OK**

Select **Set Date/Time**, then **MENU/OK**

Use and **MENU/OK** to set the date and time

Push **STOP/BACK** repeatedly to exit menus

You can change the time format in the Overlay Menu, see pages 6-7

FILE MANAGEMENT MENU



If an external (flash) drive is NOT inserted in one of the USB ports, this menu will show and you can only delete individual files from the internal drive.



When a USB flash drive is inserted into one of the ports, there will be new options to copy (or move) files from one drive to the other, and you will be able to work with a group of files.

The default menu gives options to Copy or Delete files from the either the internal or external drive.

You can change the COPY option to MOVE (read caution below)

Use the buttons ▲ ▼ to move the cursor to

> Toggle Copy or Move

Press MENU/OK

Menu items will now say "Move video from..." etc.

Press STOP/BACK to return to previous screen.

CAUTION

COPYING files duplicates file(s) from one drive (internal or external) to the other.

- The file(s) remain in the original location Recommended

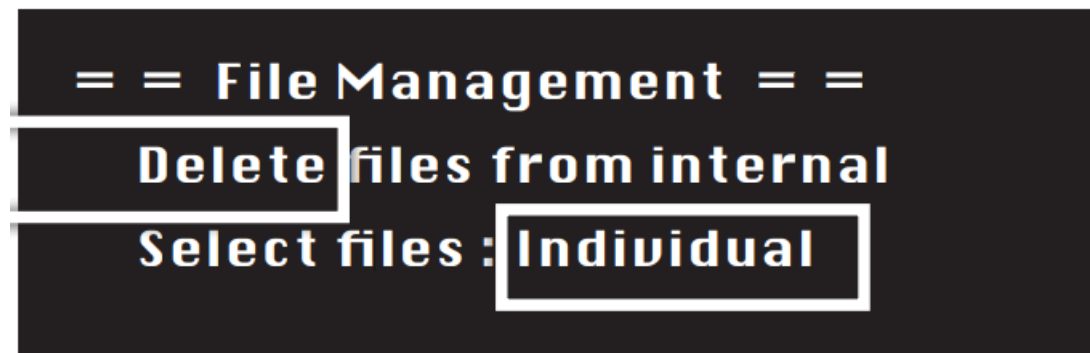
MOVING files transfers file(s) from one drive (internal or external) to the other.

- The file(s) are then automatically deleted from the original location. Do this procedure with care

FIRMWARE VERSIONS These instructions are current for MyTana Firmware ver. 1755. Older versions may have slightly different options in the screen menus.

To find your system's version, follow this path:

Main Menu > Setup > System Information > Firmware



= = File Management = =

Copy video from internal

Copy video from external

Copy snapshots from internal

Copy snapshots from external

Delete files from internal

Delete files from external

Toggle Copy or Move

Select files : Individual

The default menu
is also setup to
work with a single
file (**Individual**)

You can change INDIVIDUAL to GROUP so you can select multiple files to work with at the same time

Use the buttons ▲ ▼ to move the cursor to

> Select Files: Individual

Press MENU/OK

Menu changes to "Select Files: Group"

Press STOP/BACK to return to previous screen.

TO COPY/MOVE OR DELETE FILES

There must be a flash drive inserted in the USB port to Copy or Move files.

Read information in previous section (left) before doing these procedures.

Copying/moving files from a selected drive (internal or external) automatically chooses the other drive as the destination.

Use the buttons ▲ ▼ to move the cursor (>) to the procedure you want to do

Press MENU/OK

Your list of files will appear for selection.

= = File Management = =
Copy video from internal
> Copy video from external
Copy snapshots from internal
Copy snapshots from external
Delete files from internal
Delete files from external
Toggle Copy or Move
Select files : Individual

Selecting an Individual file: (default)

Use the buttons ▲ ▼ to move the cursor to the file you want to Copy/Move or Delete

Press MENU/OK

File will automatically Copy/Move or be Deleted.

**Remember: if you MOVE a file, it will automatically be deleted from the original location (see CAUTION, opposite page).

Press STOP/BACK repeatedly to exit menus.

To select a GROUP of files:

Be sure the Menu shows "Select Files: Group" (see "change Individual to Group" left)

Use the buttons ▲ ▼ to move cursor to the first file you want to work with

= = Copy video from internal = =
[] 20100425-03.mp4 5.30 MB
[] 20100425-02.mp4 2.94 MB
> [] 20100425-01.mp4 6.34 MB
[] 20100425-00.mp4 4.94 MB

= = Copy video from internal = =
[] 20100425-03.mp4 5.30 MB
[] 20100425-02.mp4 2.94 MB
[x] 20100425-01.mp4 6.34 MB
> [] 20100425-00.mp4 4.94 MB

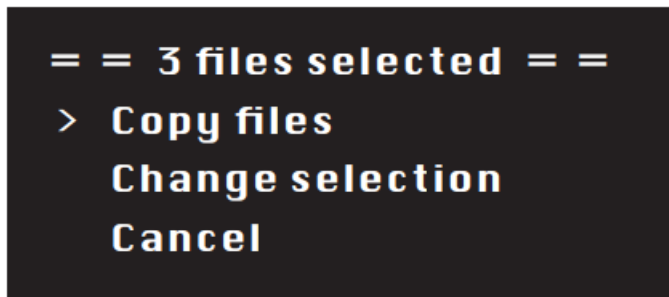
Press MENU/OK

File will be selected as indicated by [x]

Move cursor to the next file

Press MENU/OK

Repeat until you have selected all the jobs you wish to work with



Press STOP/BACK

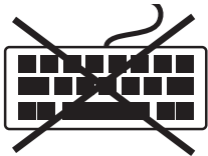
A screen will appear to confirm selections, it also gives options to Change the selection or Cancel the process. Press STOP/BACK to apply the function and return to previous screens.

OVERLAY MENU

The Overlay menu lets you edit the text field overlays that appear on your videos or images.

You can also change the time format of the time/date stamp. Most tasks require a USB Keyboard Connect the keyboard to one of the USB ports on the front of the camera.

Tasks that do not require a keyboard are indicated >>



WORKING WITH CUSTOM TEXT



Adding Custom Text

Replaces date/time stamp at bottom of screen

- Push MENU/OK on control panel to access the Main Screen
- Select Overlay, then MENU/OK
- Select Set Up Primary Overlay, then MENU/OK
- Select Custom Text, then MENU/OK
- 5 custom text lines appear, select one then push MENU/OK

Each selection allows 2 lines with 20 characters each

You can enter all 5 custom names while you are here, or just one at a time

- Push STOP/BACK repeatedly to return to the Main Screen

Reposition Custom Text on the screen

- Push MENU/OK on control panel to access the Main Screen
- Select Overlay, then MENU/OK
- Select Set Up Primary Overlay, then MENU/OK
- Select movement you need, then press MENU/OK repeatedly until the title is in the desired location.
Use the buttons ▲ ▼ to toggle between the movement choices
- Push STOP/BACK repeatedly to return to the Main Screen

Delete Custom Text on a job

- Push MENU/OK on control panel to access the Main Screen
- Select Overlay, then MENU/OK
- Select Set Up Primary Overlay, then MENU/OK
- Select Custom Text, then MENU/OK
- Select custom text to remove, then MENU/OK
- Use backspace or Delete/Back keys to delete the title, then MENU/OK
- Push STOP/BACK repeatedly to return to the Main Screen

Replace Custom Text with the time/date stamp



- Push MENU/OK on control panel to access the Main Screen
- Select Overlay, then MENU/OK

Check that Primary Overlay at the top of the Overlays menu has 16 x 16 showing.

16 x 16 is the display size of the time stamp

= = Overlays = =
> Primary Overlay: 16 x 16
Set Up Primary Overlay
Secondary Overlay

8 x 13 will also show the stamp but very small

None will display nothing and the following steps won't work

Press the MENU/OK while the arrow is next to Primary

Overlay to toggle between these... once it says 16x16, continue on.

- Select Set Up Primary Overlay (2nd menu item) then MENU/OK
- Select Text , then MENU/OK

- Select ^d^t , then MENU/OK
Time/date stamp will display with CURRENT time/date
- Push STOP/BACK repeatedly to return to the Main Screen

Find jobs with Custom Text



- Push MENU/OK on control panel to access the Main Screen
- Select Overlay, then MENU/OK
- Select Set Up Primary Overlay , then MENU/OK
- Select Custom Text, then MENU/OK
- Choose the job you want to record that you have already named, then MENU/OK
To display text, push MENU/OK
- Push STOP/BACK repeatedly to return to the Main Screen and continue with recording

WORKING WITH CUSTOM TITLES



Entering a Custom Title

- Push MENU/OK on control panel to access the Main Screen
- Select Overlay, then MENU/OK
- Select Secondary Overlay, then MENU/OK
- Select Title, then MENU/OK
- Enter your title using the keyboard. If a 2nd line is needed, push MENU/OK to move cursor to the second line for typing
- Push STOP/BACK repeatedly to return to the Main Screen

Reposition Title on the screen

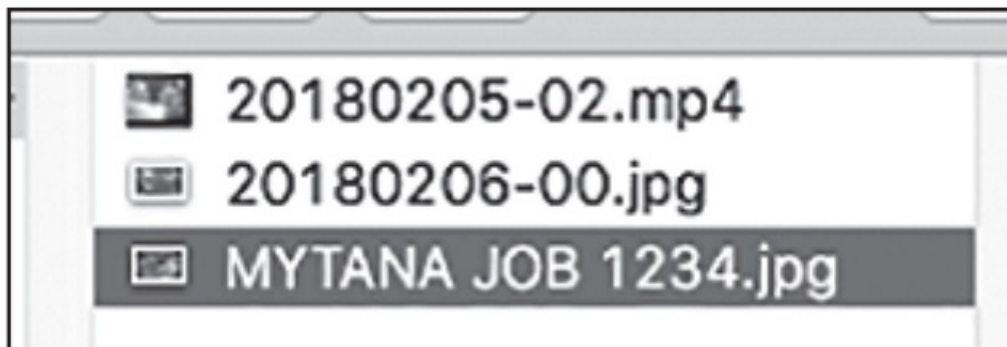
- Push MENU/OK on control panel to access the Main Screen
- Select Overlay, then MENU/OK

- Select Title Overlay, then MENU/OK
- Select movement you need, then press MENU/OK repeatedly until the title is in your desired location
Use the ▲ ▼ buttons to toggle between the movement choices
- Push STOP/BACK repeatedly to return to the Main Screen

Remove a Title

- Push MENU/OK on control panel to access the Main Screen
- Select Overlay, then MENU/OK
- Select Title Overlay, then MENU/OK
- Select Edit Text, then MENU/OK
- Use backspace or Delete/Back on the keyboard to delete the title, then MENU/OK
- Push STOP/BACK repeatedly to return to the Main Screen

CHANGE A FILE NAME



Replaces the default file name (ex: 20171116-01.mp4) with your own text. Consider using what you use for Custom Title or Custom Text.

File names appear on your USB drive lists, or will display in Play Video Screen

- Push MENU/OK on control panel to access the Main Screen
- Select File Management, then MENU/OK
- Select Rename, then MENU/OK
- Select Internal, External or Both, then MENU/OK
- Rename files
**Important Type in .mp4 at the end of the file name for videos, or .jpg at the end of the file name for snapshots—be sure to include the . (dot)
- Press MENU/OK
- Push STOP/BACK repeatedly to return to the Main Screen

CHANGE TIME FORMAT



- Select Overlays, then MENU/OK
- Select Primary Overlay, then MENU/OK
- Select Time Format, then MENU/OK
- There are 7 options to choose from,
Select HH:MM AM/PM, then MENU/OK
- Push STOP/BACK repeatedly to return to the Main Screen

Camera Care Tips Avoid costly repairs!

GENERAL

NEVER USE A CAMERA TO CLEAR BLOCKAGES or ram it to jump an offset. This can result in kinked/broken push rod, or damaged camera head.

DON'T POWER CAMERA WITH A CONVENTIONAL GENERATOR.

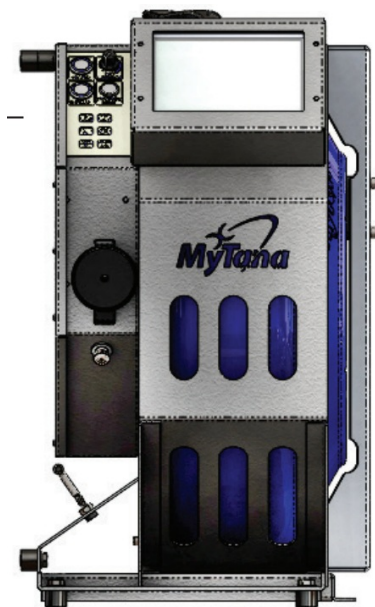
Generators produce dirty power that can ruin electronic circuitry.

Make sure the battery is charged up before field work, or use an Inverter Generator that is rated safe for electronics.

TRAPS Don't use your camera in any kind of traps. Even if a trap seems large enough, due to the tight turns involved, the camera could become lodged and incur damage. *Our DrainTracker mini camera is designed to go through traps in smaller lines.

If it's an option, run water to reduce friction as you push the camera through a pipe.

HOUSING



KEEP DRY Be sure to keep a camera frame or control box (both in-use and out-of-use) out of the “spray” of cable machines and jetters.

- Control panels are generally water resistant, but not waterproof
- Electronics housing is vented for air circulation, so it is not water proof
- Keep reel interiors as dry as possible

Never use wet/dirty gloves when operating the controls.
This can get dirt/grit into the buttons and cause them to not function properly.

PUSHROD

Don't use a camera in the same line as a cable machine, the spinning cable can damage both the push rod and camera head.

Cleanouts and entrances can be sharp; cover edges with a rag or use our Tiger Tail guide to avoid cutting the pushrod.

When pulling the camera out of the line, wipe the pushrod down with a cleaning solution on a rag.

When rewinding, stack the push rod carefully into the reel to avoid kinking.

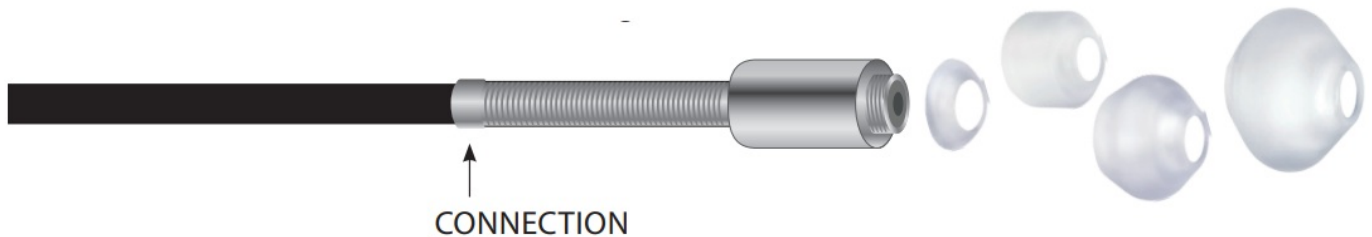
CAMERA HEAD

ALWAYS USE A POLY COVER, like our SnoBall or IceBall camera guides. They are integral to the functionality and protection of the camera head. Keep a cover on the camera during transport to protect the threads and the head.

At the end of the day, check the camera head for damage and signs of water ingress.

CONNECTION

During transport, to avoid jarring the camera head / push rod connection. Either:



- remove the camera head from the push rod, and cap both rod and head with the protective caps that came with the system
 - or tuck the camera head inside the reel
- To reconnect, align the push rod with the head and screw on until snug and there are no skipped threads.
- Don't over-tighten—never use tools to tighten
 - Avoid getting grime on the connection components

GUIDES

ICEBALLS The MS11-NG2 system includes multiple sizes suited for different sizes of pipes.

- Remove the small IceBall before adding a larger size.
- The 2.5" and 3" IceBalls are rounded to help jump offsets

Remove and clean the threads regularly. Not doing this can result in micro amounts of crud hardening on the threads making them difficult to remove.

- Apply dielectric grease to the threads periodically or when changing sizes.

A SNOBALL guide is included with our 11/16" camera head. Inspect regularly for damage, replace as needed.



CUSTOMER SERVICE

Manufacturers of Quality
Sewer and Drain Cleaning
Equipment since 1957

www.MyTana.com

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EMAIL mytana@mytana.com



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Documents / Resources

	<p>MyTana MSA-, MS9-, MS11-NG2 and MS11+ Combo Kit [pdf] User Guide MSA- MS9- MS11-NG2 and MS11 Combo Kit, MSA-, MS9-, MS11-NG2, MS11, MSA- Combo Kit, MS9- Combo Kit, MS11-NG2 Combo Kit, MS11 Combo Kit, Combo Kit</p>
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References

- ✈ [Sewer and drain cleaning equipment, parts and tools - MyTana LLC](#)

- [✈ Sewer and drain cleaning equipment, parts and tools - MyTana LLC](#)

Manuals+.