

MEDI-DART

TREAT YOUR CATTLE IN ALL THE RIGHT WAYS, IN ALL THE RIGHT PLACES

INSTRUCTIONS FOR THE MEDI-DART EXTENSION AND PROJECTILE SYSTEM

MEDI-DART INC.

CAUTION THIS IS NOT A TOY

KEEP OUT OF THE REACH OF CHILDREN

Injectons To Humans Can Be Fatal

READ AND FOLLOW INSTRUCTIONS

Thank you for purchasing your new medicating system. We ask that you please read these instructions and spend the time to practice and familiarize yourself with the Medi-Dart system. If you have any questions please call our office toll free by dialing 1 (888) 778 7757 or EMAIL at medidart@telusplanet.net

GETTING TO KNOW YOUR DART

Unscrew the nut connecting the syringe barrel to the tail section and remove the tail section.

1. At the rear of the tail section there is an air valve like that found on a football or a basketball. Pick up the air pump and push inflating needle into the air valve. The needle should go in with only slight resistance. You may have to probe a little to locate the hole. Putting a little castor oil on the inflating needle will increase the life of the valve.
2. Place the tail section under your arm so the pump hangs down [no hands]. Grab the pump so you are able to pump full strokes without pulling on the inflating needle/air valve connection. Remove the pump from the tail section and put them both down for now.
3. Pick up the syringe barrel and carefully pull the protective end cap off the needle. There is a stainless steel loop which goes around the needle. Pull and push the loop back and forth. You should see a small black valve cap attached to other end of the push loop. When the loop is pulled toward the tip of the needle as far as possible the valve is in the closed position. When the needle goes into the animal the loop is pushed back opening the valve.
4. Unscrew the front nut on the barrel and remove. Pull out the needle valve assembly. See how the needle valve operates. Put the needle back into the syringe barrel, notice that the aluminum needle housing will hit the syringe barrel when pushed in by the front nut. **There is no advantage to over tightening the nut.** Leaving the nut loose when not in use will allow the valve seat to expand to its original size ensuring a good seal when used next.
5. Put the syringe back together and move the plunger back and forth with the valve in the open and closed positions. You should feel pressure building when the plunger is pushed ahead with the valve in the closed position.
6. Do not be afraid to load the dart with water. Be sure to feel pressure build when you pump air into the tail section of the dart. If you do not, there may be an air leak.
7. When you shoot the water out of your dart you will feel the plunger push the valve closed and the loop out towards the needle tip. How hard the loop pushes out is directly related to the amount of air pumped into the dart by the pump.

DIRECTIONS FOR USE

1. Sterilize barrel, plunger, needle and valves before use. Lubricate with castor oil. If sterilization is to be done in boiling water, suspend plastic and rubber parts so they will not come into contact with the bottom or sides of the container.
2. Push the pushrod back, this allows the valve to open.
3. Load the syringe with the desired amount of medication. **DO NOT GIVE INJECTIONS LESS THAN 10CC.**
4. Pull the pushrod forward to seal the valve. Push the plunger forward to be sure the valve has sealed properly.
5. Attach the tail section to form an air tight seal. **DO NOT OVERTIGHTEN THE NUT.**
6. Connect the air pump to the valve located at the rear of the tail section as you would a basketball or football. Pump 4 full strokes of air and disconnect the pump. **BE SURE YOU FEEL PRESSURE BUILD WHILE PUMPING.** If not, check for air leaks by submerging dart in water while pumping and looking for air bubbles.
7. **DO NOT** store medication in the dart. Load and pressurize immediately prior to use.
8. **THIS TOOL IS NOT DESIGNED TO USE ON BABY CALVES.**

MEDI-DART DISASSEMBLY

1. Unscrew the nut and remove the tail section.
 2. Pull the plunger out of the syringe barrel.
 3. Carefully remove the protective end cap.
 4. Unscrew the front nut and pull the needle/valve assembly out of the syringe barrel.
 5. Unscrew the valve cap from the pushrod
 6. Carefully pull the valve seat off of the pushrod.
 7. Slide the pushrod out of the needle.
 8. To reassemble, reverse these instructions. Be sure that the loop of the pushrod is around the needle.
- Use castor oil to lubricate.**

THE EXTENSION MEDI-DART

Insert the tail section into the pole once the dart is loaded.

Push the finger toward the syringe barrel so there is light contact and at the same time slide the dart out of the pole so that the finger engages the lip on the nut then release the finger. The dart will now stay in the pole.

The number 2 needle is recommended. Thinner skinned animals (calves or bison) may require a number 3 needle.

When giving the shot, poke the animal firmly and immediately pull the pole off of the dart. This will allow the animal to go in any direction without the pole interfering.

THE BOW AND ARROW MEDI-DART

Be sure to read the bow instructions carefully.

Be sure the odd colored feather on the tail section of the dart points away from the bow when shooting.

We recommend that you practice shooting the dart before medicating any livestock. To simulate a loaded dart put water in the syringe (do not pressurize). If you are planning to inject 15 cc of medicine, practice with 15 cc of water in the syringe.

Clean hay or straw bales make an excellent target. Make sure the target is large enough that you cannot miss and that the ground around the target is soft and free of hard objects that could harm the needle.

There is a small bump on the bowstring, the bump should be above the arrow shaft and will help hold the arrow in the correct position.

ALLOW ENOUGH TIME TO PRACTICE. YOU SHOULD BE CONFIDENT WHEN MEDICATING AN ANIMAL.

The number 3 needle is recommended. Thinner skinned animals (calves or bison) may require a number 4 needle.

NEEDLE SELECTING

Medi-Dart needles are available in different degrees of roughness. This means you can purchase custom needles made for large animals with thick hides or small animals with thinner hides. The needles are stamped with a number 2, 3, 4 or 5. The larger the number the harder the needle will try to stay in the animal. It is preferable to start with a smoother needle (lower number) to see how well the needle works in your area. Thinner skinned animals (calves or bison) usually require a rougher (higher number) needle. Subcutaneous needles are available.

TROUBLE SHOOTING

Dart comes out of the animal before the medicine is injected

The needle is not rough enough. You need a higher needle number.
Too much air pressure. Use 1 or 2 less pumps of air.

The medicine is injected but the dart stays in the animal.

Hit the animal in a poor location (soft tissue between the legs or flank).
The plunger was not lubricated with castor oil.
The valve seat is worn out (medicine injects slowly, should be approximately 10 cc/second).
Too rough a needle, use a lower numbered needle.
Not enough air pressure (air leak?)

The medicine did not inject and the dart stays in the animal

No air pressure (air leak or you forgot to pump air into the dart)
The needle is plugged.

The dart bounces off of the animal

Shooting the animal too hard or not hard enough (usually too hard) **PROJECTILE DARTS**

The needle is not rough enough (if you are currently using a number 3 needle go to a number 4) Needle retention is a combination of how rough the needle is and how hard you shoot them. **PROJECTILE DARTS**
Too much medicine in the syringe. If you over fill the syringe there is no room for the valve cap to enter the syringe when the push loop is pushed back.

DISCLAIMER

Medi-Dart is a device for giving injections to livestock. The safe use of this product is the responsibility of the user. The manufacturer cannot be held responsible for death or injury caused by the use of this product to people or livestock.

WARRANTY FOR MEDI-DART

Medi-Dart Inc. will warranty manufacturer's defects for a period of 1 year from the date of purchase. Warranty does not include bent or broken needles or the injection apparatus. Medi-Dart reserves the right to replace or repair the defective part. Warranty does not cover damage caused by misuse or abuse. Send proof of purchase and the defective part along with \$5.00 for shipping and handling to: **Medi-Dart Inc. Box 4181, Ponoka, Alberta, Canada, T4J1R6**

If you have any questions or concerns please contact us:
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