



ASSEMBLY & SET-UP

1. Unscrew endcaps **A** and remove contents from body **B** (Fig. 1).

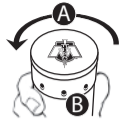


Fig. 1 - Unscrew End Caps

2. Find 6 foot-pegs **C** and insert slotted ends into large holes **D** at each end of body **B**. Snap pegs **C** firmly into place (Fig. 2).



Fig. 2 - Insert Foot Pegs

3. Place gel-like tissue patch **E** on body **B** surface, and center lengthwise over decompression slot **F** (Fig. 3).

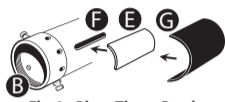


Fig. 3 - Place Tissue Patch and Flesh Pad

4. Place foam flesh pad **G** over tissue patch **E**, and center in recessed middle section of body **B**. (Fig. 3).

VEIN ASSEMBLY

“WET STICK” (Fig. 4) - Snip both ends of RED vein tubing **I** at a sharp angle. (Fig. 4 inset a). Thread one end of tubing **I** through both openings of a double clip **J** and snug tight (Fig. 4 inset b); thread other end UP through small hole **H1** from inside body **B** and extend across top of flesh patch **G**; thread into opposite end of body **B** DOWN through small hole **H2**. Adjust tubing **I** and clip **J** as necessary to allow tubing **I** to extend several inches out of body **B** from hole **H2** and pull clip **J** snug against inside of body.

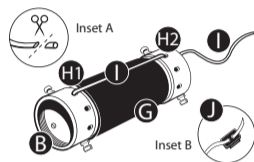


Fig. 4 - Wet Stick Vein Installation

“DRY STICK” (Fig. 5) - Snip both ends of NON-RED vein tubing **K** at a sharp angle. (Fig. 5 inset a). Thread one end of tubing **K** through both openings of a double clip **J** (Fig. 5 inset b); thread opposite end of tubing **K** UP through small hole **H3** from inside body **B** and extend across top of flesh pad **G** (Fig. 5); thread into opposite end of body **B** DOWN through small hole **H4**; thread from inside body **B** UP through small hole **H5**; extend back across top of flesh pad **G**; thread into opposite end of body **B** DOWN through small hole **H6** and thread through both openings of a second double clip **J**. Tighten clips **J** against inside of body **B** to snug tubing **K** against top of flesh pad **G**. DO NOT OVER-TIGHTEN.

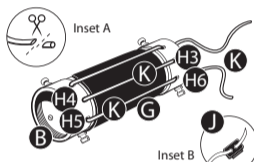


Fig. 5 - Dry Stick Vein Installation

SKIN PATCH ASSEMBLY

Stretch skin patch **L** (textured side UP) over veins (**I** and **K**) and flesh pad **G**. Secure corner loops **M** to foot-pegs **C** (Fig. 6).

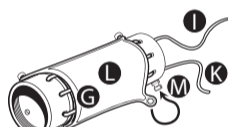


Fig. 6 - Skin Patch Installation

NEEDLE DECOMPRESSION INSERTION

1. Locate and set within reach: 14-gage catheter needle **N1** with plastic catheter (sheath) **O1** and cap **P1**. Remove cap **P1** and set aside. Inspect catheter **O1** for any damage or imperfections. Replace needle **N1** and catheter **O1** if catheter **O1** is defective or damaged.

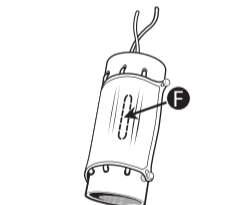


Fig. 7 - Locate Decompression Slot

2. Position MITS™ on horizontal surface with decompression slot **F** facing UP (Fig. 7).

3. With the fingers of one hand, locate and palpate the simulated “intercostal space” between 2nd and 3rd ribs (i.e., slot **F** at the center of skin patch **L** between the pair of NON-RED veins **K**) (Fig. 8).

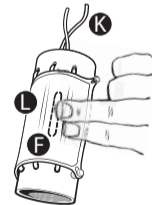


Fig. 8 - Palpitate Insertion Site

4. Firmly pinch needle **N1** between index finger and thumb of opposite hand so that the point is facing down towards the intercostal space (Fig. 9). Note that needle **N1** must be positioned directly above and centered on the intercostal space. Hold needle **N1** at 90 degrees to skin patch **L** and push through skin patch **L**, flesh pad **G**, tissue patch **E**, decompression slot **F**, and into body **B** (Fig. 9, white arrow). This simulates insertion through the ribs into the chest.

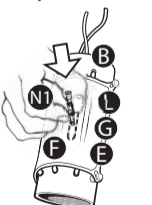


Fig. 9 - Position/Insert Needle

5. Cautiously remove needle **N1** from its catheter **O1** while leaving catheter **O1** in place (Fig. 10). Place needle **N1** inside body **B** for sharps protection, and secure catheter **O1** to the MITS™ with tape.



Fig. 10 - Remove Needle

STORAGE

When not in use, foot-pegs **C**, tissue patch **E**, flesh pad **G**, vein tubing **I** and **K**, and skin patch **L** can all remain on the surface of the MITS™. Place all “Sharps” in safety container in body **B**. Roll these instructions into a tube, and put inside body **B** with all other unattached components. (Fig. 11)

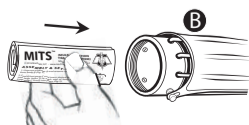


Fig. 11 - Store Items in MITS™ Unit

“DRY STICK” INSERTION

1. Locate and set within reach: saline lock **Q**, IV line **R**, and 18-gage catheter needle **N2** having plastic catheter (sheath) **O2** and safety cap **P2**. Remove cap **P2** and set aside. Inspect catheter **O2** for any damage or imperfections. Replace needle **N2** and catheter **O2** if catheter **O2** is defective or damaged.



Fig. 12 - Position MITS™ Unit

2. Position body **B** horizontally on table top or other suitable surface with one end facing your body and veins **K** facing UP (Fig. 12).

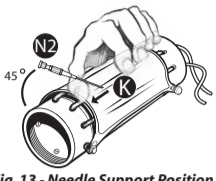


Fig. 13 - Needle Support Position

3. Form a letter “C” with the thumb and index finger of one hand. Position index finger over one of NON-RED veins **K** above intended injection site for that vein near edge of skin patch **L** (Fig. 13). Position thumb below intended injection site and apply a small amount of downward pressure to pull skin taut (Fig. 13 arrow).

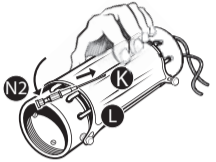


Fig. 14 - Needle Support Position

4. Position needle **N2** at 45 degree angle to the vein **K** with needle's bevel edge facing UP. You may use thumb as an angle guide for inserting needle **N2** (Fig. 13). Slowly insert needle **N2** into vein **K**. Slight resistance will be felt as needle **N2** advances through skin patch **L** and vein wall (Fig. 13). Once needle **N2** pierces vein wall, reposition thumb and rotate needle **N2** down to just above skin patch **L** (Fig. 14). Slowly advance needle **N2** a quarter inch into center of vein **K** (Fig. 14 arrow).

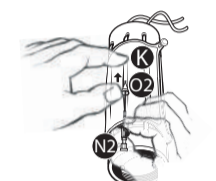


Fig. 15 - Advance Catheter

5. Without moving needle **N2**, slowly advance catheter **O2** further into center of vein **K** (Fig. 15). Continue to apply pressure with your index finger above injection site and remove needle **N2**, leaving catheter **O2** in place (Fig. 16).



Fig. 16 - Catheter in Place

6. Attach saline lock **Q** or IV line **R** to catheter **O2** and secure catheter **O2** to MITS™ with tape (Fig. 17).



Fig. 17 - Secure Catheter

“WET STICK” INSERTION

1. Position body **B** horizontally on table top or other suitable surface with one end facing your body and vein **I** facing UP (Fig. 18).

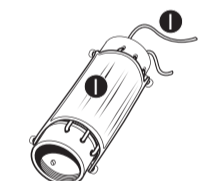


Fig. 18 - Position MITS™ Unit

2. “Wet” Vein Preparation - Before proceeding, the vein **I** must be pressurized with simulated blood.

a. Locate and set within reach: syringe **S** with shutoff valve **T**; simulated blood pack **V**; and O-rings **W** or clips.

b. Pull unsecured end of vein **I** to snug against flesh pad **G**.

c. Open valve **T**.

d. Mix water with simulated blood **V** and draw into syringe **S** until full and close valve **T** (Fig. 19).



Fig. 19 - Filling the Syringe

e. Use an O-ring **W** or clips to secure intake end of valve **T** to end of “wet stick” vein **I** extending from body **B** (Fig. 20, Inset A).

f. Open valve **T** and push syringe plunger until fluid slightly pressurizes vein **I** (Fig. 20).

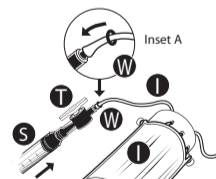


Fig. 20 - Pressurizing the Vein

g. Close valve **T**. You now have a pressurized vein **I**.

3. Follow Paragraphs 1, 3, and 4 under “DRY STICK INSERTION” above, using vein **I** instead of veins **K**.

4. Upon completion, a “flash” of blood in the flash chamber of needle **N2** indicates a successful insertion (Fig. 21). Proceed with Paragraphs 5-6 under “DRY STICK INSERTION” and complete IV insertion, using vein **I** instead of veins **K**.

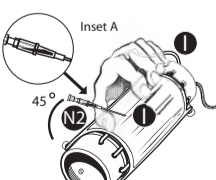


Fig. 21 - Needle Flash Chamber

5. Once vein **I** has been punctured, a new vein **I** will need to be threaded onto body **B** before performing another “Wet Stick” (see “ASSEMBLY” Paragraph 5 “Wet Stick”).

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