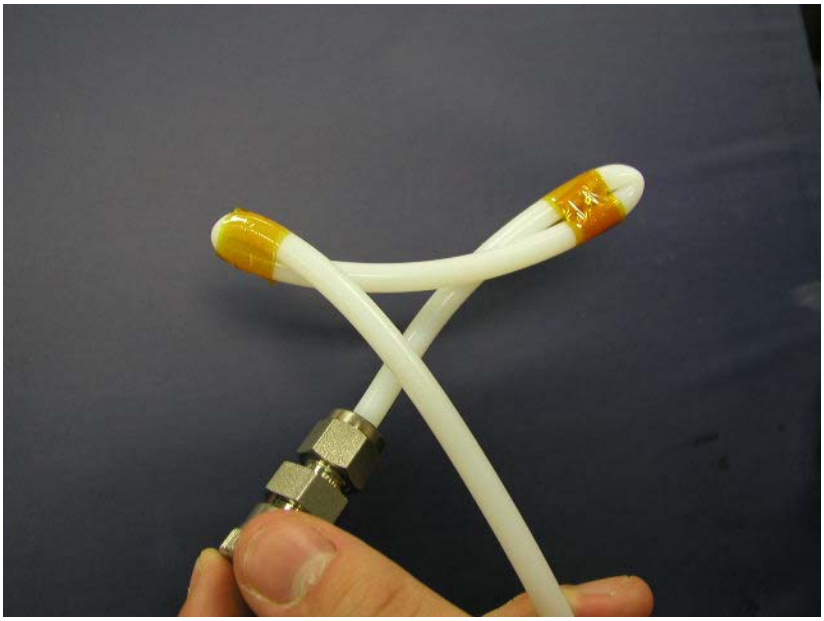
CM–2 MIST IFM–13 MIST EMS RECOVERY

SEAL OFF MIST GAS CHROMATOGRAPH LINE

1. Perform AP–17 MIST TUBE LEAK CHECK (CM–2 EOC, pg 7–34), steps 1–12

CM-2 Tool

2. Unstow Kapton Tape
3. Cut two six–inch pieces of tape
   Temp stow tape on CM–2 rack
4. Refer to the diagram below of the GC sample line



MIST EMS

5. Bend the GC sample tube approximately 4 inches from the GC sample line connector and squeeze very tightly, producing a tight kink in the tubing (like you would with a garden hose to stop water flow)
6. While maintaining a tight squeeze on the kink, wrap at least 3 complete wraps of Kapton Tape around the kink in the tube
7. Place a second kink in the GC sample line tube approximately 4 inches from the first kink and wrap with Kapton Tape as in steps 5 and 6 above
8. Stow the GC sample line connector and tubing within the EMS on the provided stowage clip

CHECK MIST VENT LINE

9. Unstow:

CM–2 Tool Kit
- 1/4-in Drive Ratchet Wrench
- 5 mm Hex Head Driver

EP	10.	Don Anti–static Wrist Tether, connect to grounding jack
EMS	11.	Remove EMS vent line (black tube) from instrumentation ring fill/vent port
	12.	√O-rings in EMS vent line (black tube)
	13.	Place vent line in retaining clip (labeled 'VENT')
	14.	Loosen grounding bolt (non–captive, top of chamber instrumentation ring) using 1/4-in Drive Ratchet Wrench with 5 mm Hex Head Driver
	15.	Remove grounding strap from bolt, temp stow
	16.	Hand tighten grounding bolt on instrumentation ring
	17.	Temp stow: 1/4-in Drive Ratchet Wrench 5 mm Hex Head Driver
	18.	Doff Anti–static Wrist Tether

EMS ROTATION

NOTE

Steps 19–22 require two crew members

	19.	Depress EMS locking buttons (two) Remove EMS from chamber Release EMS locking buttons (two)
	20.	Rotate EMS 180° (front plate will go in chamber first)
	21.	Depress EMS locking buttons (two) Align EMS with chamber rails Slowly slide EMS into chamber until it hits the reverse insertion stop Release EMS locking buttons (two)
	22.	√For water in flame tube Notify MCC (water presence in flame tube)

ATOMIZER HEAD REMOVAL

EP	23.	Don Anti–static Wrist Tether, connect to grounding jack
EMS	24.	Press SA01 electrical connector locking clip, disconnect
	25.	√UN01 coaxial connector not loose
	26.	Turn UN01 coaxial connector ccw, remove from back of atomizer head
	27.	Disconnect water line QD

28. Grab atomizer solenoid mounting bracket
Rotate atomizer solenoid mounting bracket ccw until locking pins (two) clear atomizer retainer bosses
Slowly pull atomizer head out of flame tube with one hand while holding EMS handle with other hand (minimize rotation of the atomizer head)

29. √Atomizer water line for water and/or bubbles
Notify MCC (water presence in water line)

30. Doff Anti–static Wrist Tether

ATOMIZER HEAD UNSTOWAGE/STOWAGE/INSTALLATION

FP01 31. Unstow Atomizer Head WMC–7000

32. Remove, discard Kapton Tape from water line on new atomizer head
Remove protective covering from new atomizer head
Place protective covering over used atomizer head

FP01 33. Stow used atomizer head

34. Pull solenoid plunger by squeezing the black retaining clip towards the gold solenoid until clapper vlv is open, release
√Clapper vlv returns to cover nozzle

35. Log atomizer head serial # and MET installed in table below

SERIAL NO.	MET INSTALLED

36. Don Anti–static Wrist Tether, connect to grounding jack

EMS 37. Hold EMS handle with one hand, grab solenoid mount with other hand

NOTE
While inserting atomizer head, be sure not to twist it until it is inserted completely

38. Slowly insert atomizer head into flame tube with coaxial connector, water line on left, locking pins at 2 and 8 o'clock positions (minimize rotation of the atomizer head)
Rotate atomizer solenoid mounting bracket cw until locking pins (two) reach retainer bosses

39. Connect water line QD
√Water line QD connection secure

NOTE
When tightening coaxial connector, be sure to hand–tighten completely

40. Install, hand–tighten UN01 coaxial connector onto back of atomizer head (cw)

41. Connect SA01 electrical connector

MIST PREP FOR STARTUP

NOTE
Two crew members required for step 42

42. Perform MIST CHAMBER ACCESS (CM–2, NOM), pg 4–26, steps 57-63
43. Perform MIST CHAMBER ACCESS (CM–2, NOM), pg 4–27, steps 67–83
44. Perform CHAMBER ACCESS (CLOSE CHAMBER) (CM–2, Cue Card), steps 1-8
45. Stow Kapton Tape

MIST STARTUP

46. Perform MIST START-UP (CM-2, NOM), pg 4-7, steps 1-21, placing valves in proper configuration as needed
47. Perform MIST START-UP (CM-2, NOM), pg 4-9, step 29