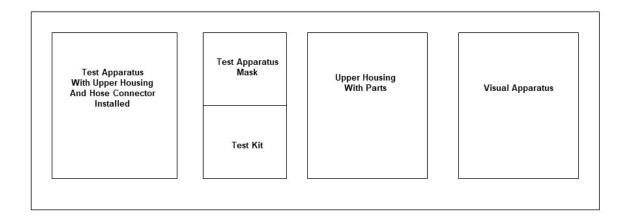
Table Layout for Bio-Pak 240-R Contest



BIOPAK 240-R VISUAL APPARATUS (BREAK DOWN)

Upper Housing Assembly-Removed Hoses-Removed Coolant Lids and Ice Canisters - Removed Center Section Lid Assembly - Removed Moisture Pads - Removed Carbon Dioxide Scrubbers and Gasket - Removed PCM Canister - Removed Loosen (But do not remove) Flow Restrictor Center Section – Removed Diaphragm and worm gear-Removed Vent Valve Assembly - Removed as a unit Oxygen Cylinder-Removed

BIOPAK 240-R TOOL KIT

Leak Check Adapter Fitting **Flow Test Fixture Test Key Vent Valve Hand Wrench Center Section Pneumatic Plug Regulator Wash Cover Combination Pick Tool #00 Phillips Head Screwdriver #1 Phillips Head Screwdriver #2 Phillips Head Screwdriver** 1/4" Hex Driver 3/16" Nut Driver 5/16" Nut Driver 9/32" Nut Driver 3/8" x 5/16" Open End Wrench 7/16" Combination Wrench ¹/₂" Combination Wrench 5/8" x 9/16" Open End Wrench **Stop Watch Bypass Valve Tool**

STATEMENT TO BENCH CONTESTANT

The bench participant will be provided with two Bio-Pak 240- R apparatus (one disassembled, one assembled), a stopwatch, leak detector fluid, test kit, and tool kit. Only the tools and fluid provided will be used for testing and assembly of the apparatus. The work at the bench will consist of:

- 1. A visual examination of a disassembled Bio-Pak 240-R and the proper assembly and preparation for use in rescue work. This will include correcting any predetermined problem(s) so that the apparatus is in proper working order. Simulating defogging of the facepiece lens will be done as a part of the visual examination. This visual examination, correcting predetermined problem(s), and proper assembly can be done at any time allowed for the working of the problem.
- 2. Test the assembled Bio-Pak 240-R apparatus with a tester, and correct the predetermined problem(s) so that the apparatus is in proper working condition. Except for removing the facepiece storage plug from the breathing hoses, the assembled Bio-Pak 240-R apparatus cannot be disassembled to look for problems, until the apparatus fails a test. When testing is completed on the assembled Bio-Pak 240-R apparatus, the hoses shall be removed from the tester, connected to the facepiece, and the upper housing installed. This shall be done before the clock is stopped.

When an unplanned deficiency is encountered in the apparatus, the participant will be notified by the judge(s) that the deficiency is not part of the problem. The judge will stop the clock and any time used to correct the deficiency will not be charged to the working time.

A maximum of 30 minutes will be allowed to complete the problem. The judge will tell you when 25 minutes has passed. At the completion of the problem, the judge(s) and the participant will note the working time of the problem with the official timekeeper. Work done after the clock is stopped will not be recognized.

40 R BENCH CONTESTANT	wo	DRKING TIMEMINSEC.	
VISUAL APPARATUS CHECKS		TEST APPARATUS	
Check if ok	· ·	Check if ok	
UPPER HOUSING		WRITTEN RECORD	
LOWER HOUSING			
CENTER SECTION ASSEMBLY		CONSTANT FLOW TEST	
CARBON DIOXIDE SCRUBBER		State Reading per Rev.N p. 12	
SIMULATE ADDING SCRUBBERS IF NOT PRESENT		DEMAND VALVE TEST Flow stops 1-3 Sec.	
CENTER SECTION LID ASSEMBLY		EMERGENCY BYPASS TEST Flow no more 1-2 Sec.	
SIMULATE ADDING ICE IF NOT PRESENT		VENT VALVE TEST	
CYLINDER TEST		State Reading 2 inches of water or less	
HOSES		LOW PRESSURE LEAK TEST No more than02" WC	
FACEPIECE TEST		RMS GAUGE AND TRIM TEST	
		State Reading Observe lights/gauges +/- 10%	
		HIGH PRESSURE LEAK TEST	
CONNECTIONS CONNECTED OR GOOD		LOW PRESSURE ALARM TEST	
Vent Valve Assembly - Connected or good		State Reading Alarm 650-1000 psig	
Diaphragm Worm Gear - Connected or good		READY FOR USE	
Flow Restrictor - Connected or good		DATE	
Breathing Hose Worm Gear - Connected or good		SERIAL NUMBER	
Add / Constant Fittings - Connected or good		SIGNATURE	
Center Section Lid - Connected or good		CYLINDER READING	
Center Section Push Pins - Connected or good			
Cylinder Connection - Connected or good			
Adapter to Facepiece - Connected or good			
Test Fixture Connections - Connected or good			
		Zero Adjust the Mag. Gauge	
	VI	VISUAL	
	VI	TESTER	