

M A S S A C H U S E T T S

OFFICE OF EMERGENCY MEDICAL SERVICES

DEPARTMENT OF PUBLIC HEALTH

ADMINISTRATIVE REQUIREMENT MANUAL

EFFECTIVE DATE: December 15, 2016 **AUTHORIZATION:** A. Sousa, Interim Director

TITLE: Advanced Life Support (ALS) Equipment List

SUPERSEDES: September 9, 2015

General Principles

- A. **REGULATORY AUTHORITY:** 105 CMR 170.455, 170.460, 170.470
- B. **AUTHORIZED EQUIPMENT:** Ambulance services must carry equipment and medications as required by the Statewide Treatment Protocols. Ambulance services should not equip ambulances with equipment that is outside of scope of practice of its EMT employees, as defined by the Protocols, or outside of the service's level of licensure.
- C. **PERFORMANCE STANDARDS:** All equipment must be designed and constructed to meet medical performance objectives and must not endanger patients.
- D. **MAINTENANCE:** All equipment and supplies must be maintained for proper use according to manufacturers' specifications for maintenance, storage, expiration date, replacement, etc. Services must maintain records of preventive maintenance and repairs for all equipment, including service-level and third-party inspection and maintenance records.
- E. **SPECIFICATIONS:** All equipment must be latex free if available. Disposable is preferred.

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	LEVEL		
					EMT-I	AEMT	Paramedic
Advanced Airway Management Kit	1.1	Supraglottic Airway	LG-ADULT ADULT PEDI	2 ea.	-	AEMT	Paramedic
	1.2	Endotracheal Tubes (sterile, single-use)	2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0	2 ea.	EMT-I	-	Paramedic
	1.3	Laryngoscope blades (disposable or stainless)	Curve-2 Curve-3 Curve-4 Straight-1 Straight-2 Straight-3 Straight-4	1 ea.	EMT-I	-	Paramedic
	1.4	Laryngoscope handle	ADULT PEDI	1 ea.	EMT-I	-	Paramedic
	1.5	Lubricant (water soluble, for airway insertion)		2	EMT-I	AEMT	Paramedic
	1.6	Waveform Capnography (EtCO ₂) device (may be incorporated into monitor, able to print or save)		1	EMT-I	AEMT	Paramedic

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	LEVEL		
					EMT-I	AEMT	Paramedic
	1.7	Nasal Cannula for CO2 sampling	ADULT PEDI	2 ea.	-	-	Paramedic
	1.8	Straight T-Connector (15mm) for CO2 sampling		2	EMT-I	AEMT	Paramedic
	1.9	Stylette (sterile)	14F 6F	2 ea.	EMT-I	-	Paramedic
	1.10	Gum bougie introducer device (sterile)		2	EMT-I	-	Paramedic
	1.11	Syringe (sterile, larger may be packaged with supraglottic airways)	10cc 30cc	2 2	EMT-I -	- AEMT	Paramedic Paramedic
	1.12	Commercial tube holder (or equivalent)	ADULT PEDI	2 ea.	EMT-I	-	Paramedic
	1.13	Nasogastric tubes (sterile)	10F 14F	2 ea.	EMT-I	-	Paramedic
	1.14	Catheter-tip syringe (sterile)	60mL	1	EMT-I	-	Paramedic
	1.15	Hemostat		1	EMT-I	-	Paramedic
	1.16	Magill Forceps	ADULT PEDI	1 ea.	EMT-I	-	Paramedic
	1.17	Spare bulbs (or equivalent) for device		1 ea. size	EMT-I	-	Paramedic
	1.18	Spare batteries for device		1 ea. size	EMT-I	-	Paramedic
Adult & Pediatric Advanced Airway kits may be packaged separately							

Intravenous Administration	2.1	Catheters (sterile, safety catheters)	14ga 16ga 18ga 20ga 22ga 24ga	5 ea.	EMT-I	AEMT	Paramedic
	2.2	Macro administration sets (adjustable rate set acceptable)	10gtt	4	EMT-I	AEMT	Paramedic
	2.3	Micro administration sets	60gtt	4	EMT-I	AEMT	Paramedic
	2.4	Venous Constricting bands		4	EMT-I	AEMT	Paramedic
	2.5	Padded arm board	PEDI	1	EMT-I	AEMT	Paramedic
	2.6	Syringes (sterile)	1cc 3cc 10cc 30cc	3 ea.	EMT-I	AEMT	Paramedic
	2.7	Antiseptic wipes (sterile, individual)		12	EMT-I	AEMT	Paramedic
	2.8	Bio-occlusive IV dressing		6	EMT-I	AEMT	Paramedic
	2.9	3-way stop-cock (for medication administration)		2	-	AEMT	Paramedic
	2.10	Needles (sterile)	18ga 21ga 23ga 25ga Filter needles for ampules	5 ea.	-	AEMT	Paramedic
	2.11	Intraosseous (automatic, drill-type) device		1	-	AEMT	Paramedic

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	LEVEL		
					EMT-I	AEMT	Paramedic
	2.12	Intraosseous needles (sterile)	LG-ADULT ADULT PEDI	2 ea.	- - -	AEMT AEMT AEMT	Paramedic Paramedic Paramedic
	2.13	Pressure infuser		2	-	AEMT	Paramedic
	2.14	IV extension set		2	-	AEMT	Paramedic
	2.15	NaCL (0.9%, sterile)	1000 ml 500 ml 250 ml 100 ml	6 2 2 6	EMT-I EMT-I EMT-I -	AEMT AEMT AEMT -	Paramedic Paramedic Paramedic Paramedic
	2.16	Buretrol		2	-	AEMT	Paramedic

Monitor	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	EMT-I	AEMT	Paramedic
	3.1	Defibrillator	required technology		EMT-I (AED)	AEMT (AED)	Paramedic
	3.2	Cardiac Monitoring	required technology		-	-	Paramedic
	3.3	Pacing (transcutaneous)	required technology		-	-	Paramedic
	3.4	Cardioversion (synchronized and unsynchronized)	required technology		-	-	Paramedic
	3.5	Adjustable joule setting	required technology		-	-	Paramedic
	3.6	12 Lead capability	required technology		-	-	Paramedic
	3.7	Ability to Print & Save	required technology		-	-	Paramedic
	3.8	Pads (hands-free)	ADULT PEDI	2 ea.	EMT-I	AEMT	Paramedic
	3.9	Electrodes	ADULT PEDI	36 ea.	-	-	Paramedic
	3.10	Razor (single-use)		2	EMT-I	AEMT	Paramedic
	3.11	Spare ECG paper (roll or equivalent)		2	-	-	Paramedic
	3.12	Spare batteries (3/4 - full charge)		2	-	-	Paramedic
	3.13	Spare set of all necessary cables (including monitoring and therapy cables)		1	-	-	Paramedic

Other ALS Equipment	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	EMT-I	AEMT	Paramedic
	4.1	Nebulizer (mouthpiece, T-piece)	ADULT PEDI	2 ea.	EMT-I	AEMT	Paramedic
	4.2	Pediatric age, weight or length-based medication and/or dosing reference		1	EMT-I	AEMT	Paramedic
	4.3	Needle decompression kit or equivalent (sterile)	3 ¼"	2	-	-	Paramedic
	4.4	CPAP device with equipment to do inline nebulizer treatment	MEDIUM LARGE	2 ea.	-	-	Paramedic
	4.5	Pulse-Oximetry device (may be incorporated into monitor)		1	EMT-I	AEMT	Paramedic
	4.6	Pulse-Oximetry sensors	ADULT PEDI	2 ea.	EMT-I	AEMT	Paramedic
	4.7	Glucometer (with control solution; antiseptic wipes; small gauze; bandages)		1	-	AEMT	Paramedic
	4.8	Glucometer test strips		8	-	AEMT	Paramedic
	4.9	Lancets (single use, self-retracting)		8	-	AEMT	Paramedic
	4.10	Morgan Lenses eye shield		2	-	-	Paramedic
	4.11	Nasal Atomizers (in addition to BLS)		2	EMT-I	AEMT	Paramedic

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	LEVEL		
					EMT-I	AEMT	Paramedic
		requirement)					
Effective December 31, 2017: IV Infusion Pump (must meet the following minimum requirements)	5.1	1. FDA approved, and not excluded from transport use by manufacturer's instructions. 2. Contain drug library with adult and pediatric dosing calculator 3. Manual programming capabilities for medications outside the device's own library and limits. 4. Capable of infusing one medication (channel) at a time. Recommended flexibility for addition of second channel for future use and redundancy. 5. Must use latex-free and needle-less administration sets 6. Capable of operating on AC/DC and battery power.		1			Paramedic
	5.2	Infusion set for specific infusion pump		4			Paramedic
Note: Device must be appropriately secured in ambulance during storage and use							