MASSACHUSETTS
OFFICE OF EMERGENCY MEDICAL SERVICES
DEPARTMENT OF PUBLIC HEALTH

ADMINISTRATIVE REQUIREMENT MANUAL

EFFECTIVE DATE: June 16, 2025 **AUTHORIZATION**: Susan Lewis, Director

TITLE: Advanced Life Support (ALS) Equipment List

SUPERSEDES: June 1, 2022

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 and used according to manufacturers' specifications, including but not limited to, for storage, expiration date and replacement. Services must keep 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. Disposable is preferred, unless otherwise specified.

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	LEVEL	
					AEMT	Paramedic
Advanced Airway Management Kit	1.1	Supraglottic Airway	Sizes covering all patients and weight ranges	1 each	AEMT	Paramedic
	1.2	Endotracheal Tubes (sterile, disposable only)	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 each	-	Paramedic
	1.3	Laryngoscope blades (must be appropriate for specific device and individually wrapped; must also be disposable, or reusable blades if carried must be reprocessed and maintained according to manufacturers' and CDC guidelines)	Curve-2 Curve-3 Curve-4 Straight-1 Straight-2 Straight-3 Straight-4	1 each	-	Paramedic
	1.4	Laryngoscope handle or high definition optical equivalent or video type (including, if applicable, spare batteries, bulbs)	LARGE SMALL	1 each	-	Paramedic
	1.5	Lubricant (water soluble, for airway insertion)		2	AEMT	Paramedic

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					AEMT	Paramedic
	1.6	Waveform Capnography (EtCO2) device (may be incorporated into monitor, able to print or save)		1	AEMT	Paramedic
	1.7	Nasal Cannula for CO2 sampling	ADULT PEDI	2 each	AEMT	Paramedic
	1.8	Straight T-Connector (15mm) for CO2 sampling		2	AEMT	Paramedic
	1.9	Stylet (sterile)	14F 6F	2 each	-	Paramedic
	1.10	Gum bougie introducer device (sterile)		2	-	Paramedic
	1.11	Syringe (sterile, larger may be packaged with supraglottic airways)	10cc 30cc	2 2	AEMT	Paramedic
	1.12	Commercial tube holder (or equivalent)	ADULT PEDI	2 each	-	Paramedic
	1.13	Nasogastric tubes (sterile)	10F 14F	2 each	-	Paramedic
	1.14	Catheter-tip syringe (sterile)	60mL	1	-	Paramedic
	1.15	Hemostat		1	-	Paramedic
	1.16	Magill Forceps	ADULT PEDI	1 each	-	Paramedic
Intravenous Administration	2.1	Catheters (sterile, safety catheters)	14ga 16ga 18ga 20ga 22ga 24ga	5 each	AEMT	Paramedic
	2.2	Macro administration sets (adjustable rate set acceptable)	10gtt	4	AEMT	Paramedic
	2.3	Micro administration sets	60gtt	4	AEMT	Paramedic
	2.4	Venous constricting bands		4	AEMT	Paramedic
	2.5	Padded arm board	PEDI	1	AEMT	Paramedic
	2.6	Syringes (sterile)	1cc 3cc 10cc 30cc	3 each	AEMT	Paramedic

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					AEMT	Paramedic
	2.7	Antiseptic wipes (sterile, individual)		12	AEMT	Paramedic
	2.8	Bio-occlusive IV dressing		6	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 each	AEMT	Paramedic
	2.11	Intraosseous (automatic, drill-type)		1	AEMT	Paramedic
	2.12	Intraosseous needles (sterile)	15mm 25mm 45mm	2 each	AEMT AEMT AEMT	Paramedic Paramedic Paramedic
	2.13	Pressure infuser		2	AEMT	Paramedic
	2.14	IV extension set		2	AEMT	Paramedic
Cardiac Monitor	3.1	Defibrillator	required technology		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 and save	required technology		-	Paramedic
	3.8	Pads (hands-free, manufacturer recommended)	ADULT PEDI	2 each	AEMT	Paramedic
	3.9	Electrodes	ADULT PEDI	36 each	-	Paramedic
	3.10	Razor (disposable only)		2	AEMT	Paramedic
	3.11	Spare ECG paper (roll or equivalent)		2	-	Paramedic
	3.12	Spare batteries (3/4 - full charge)		2	-	Paramedic

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					AEMT	Paramedic
	3.13	Spare set of all necessary cables (including monitoring and therapy cables)		1	-	Paramedic
Other ALS Equipment	4.1	Nebulizer (mouthpiece, T-piece)	ADULT PEDI	2 each	AEMT	Paramedic
	4.2	Pediatric age-, weight- or length-based medication and/or dosing reference (most current version)		1	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. High pressure outlets needed at oxygen sources, if required by device.	Masks: SMALL MEDIUM LARGE	2 each	-	Paramedic
	4.5	Pulse-Oximetry device (may be incorporated into monitor)		1	AEMT	Paramedic
	4.6	Pulse-Oximetry sensors	ADULT PEDI	2 each	AEMT	Paramedic
	4.7	Morgan Lenses eye shield		2	-	Paramedic
	4.8	Nasal Atomizers (in addition to BLS requirement)		2	AEMT	Paramedic
	4.9	Portable CMED radio or other portable two-way communications system to access medical direction		1	AEMT	Paramedic
IV Infusion Pump - Required only if carrying Norepinephrine (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.		1		Paramedic

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					AEMT	Paramedic
		5. Must use needle-less administration sets 6. Capable of operating on AC/DC and battery power				
	5.2	Infusion sets for specific infusion pump.		4		Paramedic
Note: Device must be appropriately secured in ambulance during storage and use						

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					AEMT	Paramedic
Optional Equipment: Required Only for Services That Have Implemented Medical Director Options Under the Statewide Treatment Protocols						
Needle Cricothyrotomy Kit	6.1	Betadine or alcohol prep pads	4			Paramedic
	6.2	12-14 gauge angiocath, 8.5cm, over the needle catheter with 10ml syringe with 3ml of saline	2 each			Paramedic
	6.3	3mm adaptor	2			Paramedic
	6.4	High pressure jet ventilator device with oxygen tubing (50psi)	1			Paramedic
	6.5	Securing device	2			Paramedic
	6.6	As alternative to 6.1-6.5, equivalent commercially prepackaged kit	2			Paramedic
Surgical Cricothyrotomy Kit	7.1	#15 Scalpel Blade	2			Paramedic
	7.2	10ml syringe	2			Paramedic
	7.3	#6.0 Cuffed Endotracheal Tube	2			Paramedic
	7.4	Flexible Guidewire device	2			Paramedic
	7.5	Securing device	2			Paramedic
	7.6	Sterile gauze for bleeding control	4			Paramedic
	7.7	Betadine or other skin cleanser	2			Paramedic
	7.8	As alternative to 7.1-7.6, equivalent commercially prepackaged kit	1			Paramedic
Transport Ventilator	8.1	Ventilator machine set up with appropriate tubing designated oxygen tank and the ability to do in-line nebulizer treatments. Must include appropriately sized masks.	1			Paramedic
Ultrasound	9.1	Ultrasound machine set up with appropriate probes and conductive gel	1			Paramedic