The Hallmark of
Quality, Service and Innovation
In Anesthesia and Respiratory Care Products
Since 1958

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Introduction to AincA

About Our Company:

Anesthesia Associates, Inc. (AincA), is your source of durable and reusable anesthesia and respiratory care products. We have served the medical community since 1958.

Our production teams combine proven, earth friendly technology with design creativity to provide medical device solutions that benefit anesthesiologists, hospitals, and manufacturers around the world. Our products solve problems such as the management of difficult airways and provide solutions for complex conditions and cases. For over 57 years, Anesthesia Associates, Inc. (AincA) has manufactured and distributed an incredible array of hardware, adapters, fittings, valves, tubes, masks, breathing bags, laryngoscopes, jet ventilators, respirometers, nerve stimulators, MRI compatible equipment, and CO₂ absorbers. We “wrote the book” on these kinds of hardware, and strive to continually expand our product lines each year.

We excel in standard “off the shelf” solutions that can be shipped the same day you place your order, and specialize in making custom configurations to meet your every need. Look for the label on a variety of products. Materials such as chrome plated brass, stainless steel, Teflon, Delrin, nylon, acrylic, neoprene, EPDM, and Silicone are combined in rugged assemblies that can be sterilized in one or more ways to be safely reused again and again. The ability to reuse products repeatedly reduces the volume of disposable products sent to our landfills and also reduces material consumption. The Anesthesia Associates, Inc. (AincA) line of products has been “green” (reusable) for over half a century.

Please visit and bookmark our user-friendly website: www.AincA.com to learn about product details, view images, search for parts, and download literature.

Please feel free to contact us directly for any product questions or requests for custom solutions. If we can’t provide you with the right answer or device, we will work hard to try to find it for you. We want to earn your respect and become your go-to supplier for all of your anesthesia related needs.

We also provide complete repair/calibration services for respirometers, laryngoscopes, valves and all of the parts that we manufacture. For more information on repair and calibration services please see Page 57.

About Our President:

Lock Williams has been with Anesthesia Associates, Inc. since 1998, initially holding the position of Vice President of Operations and Senior Engineer. In 2008 he became President/CEO. Though he is busy managing the operation of the company, Lock still enjoys solving engineering and design challenges for the medical community. He holds a degree in Applied Mechanics from University of California, San Diego and is a Registered Professional Engineer. Lock leads the AincA team in providing quality products and complete customer service.
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As a manufacturer, Anesthesia Associates, Inc. (AincA) is proud that we make the vast majority of our products in the USA. It has been important to us, from the beginning, to produce products that are not only durable but reliable. We have found that keeping manufacturing at our plant in the USA gives us better control over quality.
Signature Products

- MRI Jet Ventilator
  #00-325-MRI  Page 9

- Compact Nerve Stimulator
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- CO₂ Absorber
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- GeoFlex Tube Support
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- Scavenging Manifold
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- Finger Tip Pulse Oximeter
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- Single Limb Circuit Control Arm
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- Electronic Digital Respirometer
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- Bag / Vent Switch Valve
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**CO₂ Absorbers**

These durable chrome plated brass Carbon Dioxide Absorber Systems are fully featured, convertible and allow for the use of either pre-pack or loose-fill CO₂ absorbent material. The mechanically simplified absorber chamber uses a cam system built into the cover to lock or release the refillable chambers with an easy 90 degree rotation. A 5/16” fresh gas inlet barb, 7/8” bag hanging nipple and 19mm Male scavenging valve (00-113) outlet are provided. 22mm Male connections on the “see through” Inspiratory/Expiratory Valves connect to the breathing circuit limbs. A -40 to +80 cm H₂O manometer (#00-199) provides pressure monitoring, a 1/2” x 3” rod mounts the unit, and moisture is removed using the manual drain valve. Systems are re-configurable and will accept a selector valve (#00-116) to switch from bag to ventilator use.

**Pediatric CO₂ Absorber Customizable**

This single canister system has a chamber volume of 1200cc and is suitable for a wide variety of uses, including all pediatric cases, animal systems, and shorter cases for large patients.

**Adult CO₂ Absorber Customizable**

The twin (stacked) canister system has a total chamber volume of 2400cc in two 1200cc chambers. Chambers seal to each other with a reusable elastomer seal. The larger absorbent volume handles longer cases for larger patients.

**Universal Mounting Kit**

Sturdy anodized aluminum bar and stainless steel hardware (3x Nut/ Bolt/ Washer) allow mounting of absorbers to a variety of vertical surfaces.

**CO₂ Absorber Seal Repair Kit**

This seal kit provides a complete set of all elastomeric seals needed to rebuild a #00-720 CO₂ Absorber. Includes large canister sealing O-rings, cover O-rings, and seals for all removable components, as well as a replacement canister spring and washer.

**Vaporizer**

**In Circuit Vaporizer**

A simple device which has proven helpful in clinical practice for the introduction of volatile liquid anesthetics into low flow or closed carbon dioxide absorption circuits. Provides a controllable injection port on the expiratory limb of the absorber. A 22mm Male by 22mm Female chrome plated brass adapter with a Luer Lock fitting (with cap and cap retainer) connects to a 30ga needle. Accepts a 5ml glass syringe (not supplied).
**Scavenging System**

#00-117  Customizable

This safety manifold system can easily be used as the core of a reliable anesthesia scavenging system. The chrome plated brass assembly features dual positive and negative relief valves, a reservoir bag mount (7/8” connection), an adjustable vacuum control valve (5/16” barb) and aggressive self-adhesive mushroom head mounting strips. The 19mm Male scavenger inlet port is positioned on the top. An external vacuum source is required, as well as a reservoir bag (see Page 41) sized to the user’s needs.

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**Scavenging Valves**

#00-113  Scavenging Valve

Throttling type scavenger valve with an integral back-flow ball check-valve. Consists of a 3/4”-20 threaded male inlet with sealing lock-ring, and a 19mm Male gas evacuation outlet port. When fully closed, the valve provides a leak-tight seal. Constructed of durable chrome plated brass.

#00-113-LONG  Scavenging Valve

Throttling type scavenger valve with an integral back-flow ball check-valve. Consists of a 3/4”-20 threaded male inlet with sealing lock-ring, and a 19mm Male gas evacuation outlet port. When fully closed, the valve provides a leak-tight seal. Constructed of durable chrome plated brass. This extra tall body length (measuring 4 1/2” total clearance) is useful for equipment configurations requiring extra clearance for access to the control knob.

#00-118  Scavenging Pop-off Valve (True APL)

This relief valve is adjustable from 0 to 60cm H₂O back-pressure (@ 10 lpm nominal flow) and has an integral back-flow check-valve. Being a true Adjustable Pressure Limiting (APL) Scavenging Pop-Off Valve allows the pre-setting of the system back-pressure, with any excess pressure being allowed to pass through the valve. Consists of a 3/4”-20 inlet with sealing lock-ring, and a 19mm Male gas evacuation outlet port. When tuned fully CW, provides 60 cm H₂O max system pressure, but does not provide a leak-tight seal. Constructed of durable chrome plated brass.

#P-505  Replacement Lock-Nut Kit

Replacement chrome plated brass lock-nut and sealing O-ring. For use on either #00-113 or #00-118 Scavenging Valves.

*Also see page 44 Bag Tail Scavenging Valves.*
Jet Ventilation, Manual

Jet Ventilator Customizable #00-325
A rugged and reusable manual jet ventilator system for rigid-wall bronchoscopy, laryngeal micro-surgery, and emergency use. Consisting of 5’ high pressure Inlet tubing with O₂ DISS fitting, flow control valve, thumb control valve, back-pressure gauge, and 2’ clear plastic outlet tubing with Luer Lock fitting for attachment of adapters and tubes (below). Hoses and inlet fitting are customizable to user needs. (See next page)

Pressure Regulator #P-232
Adjustable pressure regulator with 0, DISS thread fittings, 0-60 psi gauge, and mounting bracket. Adjustable, 0-60 psi output. Approximately 100 1pm flow at 35 psi. Connects to inlet hose of #00-325. May require #P-232-HP to connect to wall/machine sources. (Not for MRI use.)

Regulator Hose Customizable #P-232-HP
Hose assembly to connect #P-232 Regulator, to wall/machine source. 5’ long, O₂ DISS Nut by O₂ DISS Nut.

Malleable Stylettes MRI
A malleable copper tube with Luer Lock connection at the proximal end (for attachment to the jet ventilator) and a safety rounded distal end. The soft malleable tube can be custom shaped and even used in laser surgery. MR Conditional 3.0 tesla.

Bronchoscope Adapter #00-326
Designed for attachment to the proximal end of most conventional rigid wall bronchoscopes for the purpose of intermittently inflating the patient’s lungs via Jet Ventilation during bronchoscopy under intravenous anesthesia. (Not for MRI use.)

Tracheostomy Adapter #00-331
15mm Female x Female Luer Lock allows connection of the Jet Vent to tracheostomy fitting or any other 15mm device. (Not for MRI use.)

Jet Ventilator Replacement Parts:

Outlet Hose Customizable #00-325-LP
Jet Ventilator replacement clear plastic outlet hose for #00-325. 1/8” NPT-Male by Male Luer Lock, 2’ long

Inlet Hose Customizable #00-325-HP
Jet Ventilator replacement inlet hose for #00-325. O₂ DISS fitting by 1/8” NPT Female, 5’ long.

Pressure Gauge #P-219
Replacement back-pressure gauge for #00-325 Jet Vent. 0-60 psi, 1/8” NPT Male, bottom fitting
MRI Jet Ventilation, Manual

**#00-325-MRI Customizable**

**MRI Jet Ventilator**

This new “standard of care” for MRI Suite airway emergencies is fully tested MR Conditional to 3.0 Tesla. No need to move a non-breathing patient from the MRI suit before starting emergency oxygenation. This special MRI assembly includes O₂ DISS Input fitting, 5’ of inlet hose, flow control valve, thumb control valve, back-pressure gauge and 2’ clear plastic outlet tubing with Luer-Lock fitting; attaching to provided 20cm (#00-329-A) malleable copper stylette assembly. All assembly components are specially designed for MRI use. Completely customizable regarding both input fittings and hose lengths (see below).

**MRI Jet Ventilator Replacement Parts**

**#00-325-MRI-LP Customizable**

**Outlet Hose**

Jet Ventilator replacement clear plastic delivery hose for #00-325-MRI. 1/8” NPT Male by Male Luer Lock, 2’ long.

**#00-325-MRI-HP Customizable**

**Inlet Hose**

Jet Ventilator replacement high pressure hose for #00-325-MRI. O₂ DISS fitting by 1/8” NPT Female, 5’ long.

**#P-219-MRI**

**Pressure Gauge**

Replacement pressure gauge for #00-325-MRI Jet Vent. 0-60 psi, 1/8” NPT Male bottom fitting.

**#P-219-MRI-1**

**Gauge Crystal**

Replacement acrylic gauge crystal, fits #P-219-MRI on #00-325-MRI Jet Vent.

Customizable **Standard & MRI Jet Ventilator Customization**

Custom hose assembly configurations for both the standard and the MRI Jet Vent are available, and include: custom lengths of outlet or inlet hoses, replacement of the inlet hose DISS nut fitting with a special quick disconnect or hand tight DISS fitting (see below), addition of a #P-232 regulator to inlet hose of Jet Vent (Not for MRI), custom length and inlet fitting for the regulator inlet hose (wall to regulator) (Not for MRI). Contact AincA Customer Service for assistance in developing the correct special assembly part numbers.

- Specify length of inlet or outlet hose.
- Specify alternate inlet fittings listed below.
  - #P-241 Quick Disconnect, Ohmeda Style.
  - #P-242 Quick Disconnect, Chemtron Style.
  - #P-243 Quick Disconnect, Puritan-Bennett Style.
  - #P-244 Quick Disconnect, Oxequip Style.
  - #P-248 Quick Disconnect, Oxequip “Medstar” style.
  - #P-245 Quick Disconnect, Schrader Hex Style.
  - #P-246 Quick Disconnect, Schrader Round Style.
  - #P-247 Hand Tightened DISS Knob.

www.AincA.com
(760) 744-6561
Anesthesia Associates, Inc.
San Marcos, California USA
Peripheral Nerve Stimulator

Compact Nerve Stimulator #00-100
Complete with battery and ball electrodes. Although compact in design, it offers many functions found only in much larger units such as; adjustable output voltage, 1 pulse per 8 seconds (default at power on), 2 pulses per second, train of four (2 cycles of 2 per second), and tetanus frequency which can be selected at 50 or 100 Hz. Includes built-in battery test, accepts FDA compliant protected lead sets, and is shipped with a standard 9 volt battery (#P-205). Designed for one-hand operation, with visual indicator for pulse and battery condition.

9V Battery, Replacement #P-205

Ball Electrodes (set), Replacement #00-106

Case, Compact Nerve Stimulator, Zippered #00-109

Patient Lead Set, Alligator Clip #00-107-P
54” long lead set. Protected Male (shrouded) 4mm Banana plugs by insulated “alligator clips” at the patient end.

Patient Lead Set, Snap Buttons #00-108-P
54” long lead set. Protected Male (shrouded) 4mm Banana plugs by “snaps” at the patient end to connect to electrode pads.

Extension Lead Set, M x F #00-110-P
54” long lead set extension. Protected Male (shrouded) 4mm Banana plugs by protected Female 4mm Banana jack.

Safety Adapter Kit (For pre year 2000 models) #00-112-P
Allows the conversion of older PN #00-100 or #00-105 models to accept compliant protected lead sets as shown above. Does not alter equipment function. Includes instructions.

Pulse Oximeter

Finger Tip Pulse Oximeter #00-632
This rugged and compact pulse oximeter is a portable, non-invasive blood oxygen saturation meter using two complimentary wavelengths of light for rapid and accurate %SpO₂ measurements. FDA certified, dual color OLED display, pulse rate and plethysmogram, six display modes, contrast adjust, and auto-off. Includes (2) AAA batteries, neck strap, and instructions.

Case, Pulse Oximeter #00-632-2
Black nylon case with hook/loop closure, including a neck strap as well as a belt loop.
Pocket Spirometer

For measuring lung capacity (volume). Used for asthmatic and bronchial conditions, emphysema, respiratory paralysis, poliomyelitis diagnosis, differential control and survey of recovery in various conditions.

#00-288  Pocket Spirometer
Pocket Spirometer reads to 7 liters, Packaged with 50 disposable mouthpieces.

#00-289  Replacement Mouthpieces
3/8” I.D. x 1.5” long. Package of 50, fits #00-288.

Peak Flow Meters

To measure the maximum flow rate of air during forced expiration.

#00-173  Standard Mini-WRIGHT
An inexpensive Peak-flow Meter designed primarily for domicile use. Provides an inexpensive form of self-monitoring by patients to give information about their response to treatment. A tubular sealed structure with a spring loaded piston and a longitudinal radius slot. Range: 60 to 800 liters/minute.

#00-174  Low Range Mini-WRIGHT
A low range version of the above Mini-WRIGHT developed specifically to accommodate those patients who are severely affected respiratory sufferers or pediatric patients who may be encouraged if they are able to move the pointer an appreciable distance up the scale. An adapter which will accommodate a small mouthpiece for use by children is also included. Range: 30 to 370 liters/minute.

#00-174-2  Windmill Trainer for Low Range Mini-WRIGHT
Clips onto Mini-WRIGHT (#00-174) to train young patients how to blow correctly through the unit. Can be repositioned for increased difficulty.

#00-281  Replacement Mouthpieces-Adult
Disposable plastic mouthpieces for use with Standard Mini-WRIGHT, peak flow gauge, and WRIGHT peak flow meter. 1.2” O.D. x 1.1” I.D. x 3.4” long.

#00-281-P  Replacement Mouthpieces-Pediatric
Disposable plastic mouthpieces for use with the low range Mini-WRIGHT .9” O.D. x .75” I.D. x 2.5” long.
Wright Professional Peak Flow Meters Now Available!

It has been several years since new Wright Professional Peak Flow Meters have been available in the USA. **To meet demand, Anesthesia Associates, Inc. is now offering fully refurbished Wright Professional Peak Flow Meters at a discounted price.**

Just like any repair or calibration our factory trained technicians perform, these refurbished units have been completely disassembled, cleaned, repaired, and calibrated to manufacturer’s specifications on manufacturer’s calibration equipment. Though the cosmetic appearance on these refurbished units range from “like new” to “gently used”, they operate as they did when they originally left the factory.

**All refurbished Wright Professional Peak Flow Meters include a 1 year warranty on parts and labor: Just like factory originals!**

All refurbished Wright Professional Peak Flow Meters come in a foam lined, hard plastic carrying case complete with instruction manual and a package of 10 disposable plastic mouth pieces.

Anesthesia Associates, Inc. (AincA) has a proven track record for superior repair and calibration services. As a factory authorized repair center for Wright Respirometers and Wright Peak Flow Meters, our technicians have been trained by the manufacturer in Great Britain. Every unit that comes in for repair or calibration is completely disassembled, cleaned, repaired, and then recalibrated. Units are returned like new, calibrated to the manufacturer’s specifications.

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### Accessories Available:

- **00-281** Disposable Mouth Pieces, Available in Packages of 25, 144, or 500 (Pictured Above)

- **00-279-CASE** Replacement Hard Plastic Case with Foam (Pictured Above)

- **00-279-CASE-V** Original Vintage Case, Limited Quantity
Cuff Pressure Monitor / Controller

Complete and accurate monitoring & control system for ET & LMA cuff pressure.

- Connect to cuff pilot line directly, or remotely using supplied extension line.
- Attached inflation bulb.
- Large easy read dial face.
- Green coded suggested pressure ranges.
- Finger trigger pressure release.
- Convenient evacuation nipple.
- Table hanging system included.
- Also usable for leak detection!
- Replacement extension lines available, 10-Pack P/N 00-197-TUBING

Specifications:

- Scale: 0-120 cmH₂O
  - 0-90 mmHg
- Accuracy: +/- 2 cmH₂O
- Connections:
  - Luer Male:
    - Top: Pressure
    - Bottom: Vacuum
- Pressure Addition: Inflation bulb
- Pressure Release: Finger Trigger
- Extension Line:
  - 39” long tube, Luer Male x Luer Female
Respirometers, Digital

Respirometers are reliable respiratory volume measurement instruments. Used where small size and light weight, together with low air resistance and low inertia are important considerations. The instruments may be used to measure tidal volumes, or (with the use of a stopwatch) minute volumes and flow rates. They are particularly suitable for respiratory measurements in anesthesia, in oxygen therapy, weaning from mechanical ventilators, and as a research tool of general application in respiratory physiology.

Electronic Digital Respirometer  Made in the USA  #00-295

With the large LCD readout display on the Model 295 Digital Respirometer the confusion of reading a mechanical respirometer dial is eliminated. The flow sensing unit has only one moving part, and is detachable from the control unit for ease of sterilization and cleaning. It may be washed, gas sterilized or cold sterilized. Comes complete as shown, ready to use with included 9V battery and one (1) circuit Adapter (22mm FxF).

• Range: 0 - 200 liters.
• Measurement Type: Air/Gas volume flow.
• Resolutions: .02 liter.
• Flow Rate: 5 lpm minimum/150 lpm maximum.
• Accuracy: ±2% at calibration point.
• Resistance to flow: 2cm of water at 100 lpm.
• Inlet & Outlet sizes: 22mm Male

Optional Accessories:

Control Unit, Replacement #00-294
Flow Sensing Unit, Replacement #00-299
6’ Retractile Cable (extended length) #00-296
Pole Clamp For Control Unit (1” Max Dia) #00-193
Carrying Case , Padded Plastic, Snap Closure #00-298
Replacement “Double Plug” #00-303
Mounted on rear of controller, connects to sensing unit.

Replacement Battery - standard 9V #P-205
Please see Page 14 for additional Adapters and Accessories.

Digital Respirometer Servicing & Calibration:

All digital Respirometers are shipped fully calibrated, completely interchangeable, and ready to use. For repair services or re-calibration, please return units to Anesthesia Associates, Inc. (AincA) with contact, shipping and billing information. Reasonable charges and rapid turnaround.
Respirometers, Mechanical

All Wright respirometers come with adapters, instruction manual, zippered case and harness. They feature convenient push button style ON/OFF and RESET controls. Units are designed with case seals and material selections to withstand sterilization by ETO only. Inlet and outlet on all respirometers are 22mm Male fittings. The safe maximum flow for all Wright respirometers should not exceed 100 liters per minute.

#00-290  Haloscale Standard
Incorporates concentric dials, an enlarged face, and higher contrast for improved readability. Range to 100 liters. Short hand: 1 liter per revolution. Long hand: 100 liters per revolution.

#00-301  Mark 14
Incorporates separate dials and a traditional face diameter. Range to 10 liters. Large dial: 1 liter per revolution. Small dial: 10 liters per revolution.

#00-302  Mark 8
Incorporates separate dials and a traditional face diameter. Range to 100 liters. Small dial: 1 liter per revolution. Large dial: 100 liters per revolution.

Replacement Parts and Accessories

#00-305  Respirometer Safety Harness
#00-306  Zippered Case with Foam Inserts
#00-306-C  Zippered Case, Only
#00-306-F  Foam Inserts, Only

Wright Respirometer & Peak Flow Meter Repair Services

Inexpensive, prompt, reliable respirometer and peak flow meter repair by factory trained technicians is available. Each unit is tested and calibrated throughout its full range of performance on special test and calibration equipment to the manufacturer's specifications on manufacturer furnished equipment. For respirometer types meeting the repair program guidelines, a fixed “program repair rate” assures predictable and economical repair costs. Please see Page 59 for full program details.
Respirometer Accessories

Note: Current model Respirometers have 22mm Male inlets and outlets. Some older models may have 23mm Male inlets and outlets.

Adapters:

Adapter (Stainless Steel) #00-293
22mm Female x catheter

Adapter (Aluminum) #00-300
23mm Female x 22mm Female

Adapter (Aluminum) #00-304
23mm Female x 22 mm Female catheter

Adapter (Aluminum) #00-307
22mm Female x 22mm Female

Connector (Silicone) #LF-307
22mm Female x 22mm Female, Latex Free, flexible, disposable.

Adapter (Aluminum) #00-308
22mm Female x 15mm Female

Connector (Silicone) #LF-308
22mm Female x 15mm Female, Latex Free, flexible, disposable.

Adapter (Chrome Plated Brass) #00-409
23mm Male x 23mm Male

Adapter (Aluminum) #00-410
23mm Female x 15mm Female

Adapter (Aluminum) #00-481
22mm Female x 5/8” corrugated tubing

Respirometer Guard
A product designed to reduce physical damage due to dropping and abuse. Comes in 4 models to fit most respirometers. Made out of an attractive, durable, neoprene or latex rubber that can be sterilized in the same manner as your respirometer. Shipped as a kit and easily installed.

Kit to fit Mark 8, Mark 14, Mark 25, Haloscale Compact and Physiological, Now Latex Free, (Neoprene) #00-145

Kit to fit Fraser-Harlake RM 121 and 311, Latex #00-146

Kit to fit Mark 20 and Haloscale Standard, Now Latex Free, (Neoprene) #00-147

Kit to fit Boeringer, Latex #00-149

O Rings, Replacement, For Guard Kits
For #00-145 (2), #00-146 (1), #00-147 (1) #P-021
For #00-146 (1) #P-026
For #00-147 (1) #P-028
Laryngeal Sprays

#LF-190  Macintosh Type Laryngeal Sprayer (Latex Free)
Macintosh type Laryngeal Spray has been designed for application of topical anesthesia with a flexible tip to anesthetize the oral cavity and larynx. 2cc reservoir. Latex free.

#LF-191  Forrester Type Sprayer (Latex Free)
Forrester type Laryngeal Spray has been designed for application of topical anesthesia with a rigid curved spray nozzle. In normal use the bottle is below the level of the nozzle, minimizing the risk of syphoning. 2cc reservoir. Latex free.

#LF-192  Swerdlow Type Sprayer (Latex Free)
Designed for single handed application of topical anesthesia, with a rigid nozzle long enough to be introduced between the vocal cords. Spray pattern readily adjustable without tools. Comes complete with Nozzle Reamer (#00-192-11) and Flushing Adapter (#00-192-12) (Luer connection). 2cc reservoir. Latex free.

Important: For ALL sprayers - the sprayer internals must be rinsed with warm water immediately after each use. Failure to do so results in the deposition of crystals in the nozzle which will impair the working of the spray. Before use on the patient, the spray should be tested for correct functioning and an unblocked nozzle.

#00-190-2  Replacement Reservoir (Latex Free)
2cc volume, polished acrylic, for use with #LF-190, #LF-191, and #LF-192.

#00-192-11  Replacement Nozzle Reamer
Specifically sized to allow mechanical cleaning of sprayer nozzle passages when blocked.

#00-192-12  Replacement Swerdlow Flushing Adapter
Connects to any syringe Luer fitting to back-flush the sprayer after use. For use on LF-192 only.
**VideoStylet**

**Difficult Visualization Made Easy**

**Suggested Price:**

**$499**

- Easy viewing 2.4” full color video with plug and go operation.
- Great for difficult and regular intubation cases.
- Suitable for use with or without a laryngoscope.
- **REUSABLE** Malleable Stylet (sterilizable).
- Rechargeable with (4) LED Status Indicators.
- Accepts all ETT’s of 6mm and larger.

**Sterilization:**
- STERRAD®, gas plasma hydrogen peroxide
- Glutaraldehyde solution

Change your intubation perspective...
view through the tip of the ET Tube.
# Component & Kit Information

<table>
<thead>
<tr>
<th>Monitor / Charger</th>
<th>Stylet, Video</th>
<th>Complete Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD Monitor with Charger P/N 00-675-LCD $100</td>
<td>VideoStylet “A” P/N 00-675-A-1 $445 Ref: ETT ID 6.0-6.5</td>
<td>AincA VideoStylet Kit A P/N 00-675-A $499</td>
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<td>VideoStylet “B” P/N 00-675-B-1 $445 Ref: ETT ID 7.0-7.5</td>
<td>AincA VideoStylet Kit B P/N 00-675-B $499</td>
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<td>VideoStylet “C” P/N 00-675-C-1 $445 Ref: ETT ID 8.0-8.5</td>
<td>AincA VideoStylet Kit C P/N 00-675-C $499</td>
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<td>VideoStylet “V” P/N 00-675-V-1 $445 Ref: ETT Veterinary</td>
<td>AincA VideoStylet Kit V P/N 00-675-V $499</td>
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</tbody>
</table>

Most Popular!
Intubation Aids for Difficult Airways

Aillon Tube Bender #00-475
Problems associated with nasotracheal intubation are often observed when the endotracheal tube is about to cross the vocal cords but stops making progress. The tube tends to follow a course which is forward and upward while the trachea's main direction is downward. The Aillon Forceps Tube Bender not only controls the tip of the tube, but also bends it down in order to conform with the direction of the trachea. 1/2” to 5/8” opening of jaws, stainless steel and aluminum.

Williams Airway Intubator (Latex Free)
Injection molded plastic, single use device. The Williams Airway Intubator is cylindrical on the proximal half and open on the distal half of the lingual surface. This Airway Intubator is indicated for use as: (1) an oropharyngeal airway, (2) a means of intubating the trachea, and (3) a guide for fiber optic laryngoscope placement. Package of 10. Made from Surlyn plastic.

Sized for Adult Females (9cm), Yellow #00-485
Recommended for use with up to 7.5mm I.D. endotracheal tube.

Sized for Adult Males (10cm), Pink #00-486
Recommended for use with up to 8.5mm I.D. endotracheal tube.

Gardent Tooth Protector #E-126
Disposable soft injection molded Santoprene white plastic. Adult size. Protects the teeth from impact and prying forces.

Abelson Jaw Spreader Kit #E-127
Intended for spreading the jaws in trismus associated with convulsive seizures or other Locked Jaw conditions. Kit includes Jaw Spreader made of high impact Styrene and a medium adult airway. Packaged in plastic box for convenient storage.

Patil Intubation Guide, Audible #00-143
A lightweight aluminum device consisting of Silicone diaphragm whistles and a 15mm Female port for attachment to tracheal tube connector. Magnifies breath sounds during blind nasotracheal and orotracheal intubation.

Patil Intubation Gauge (chrome plated brass) #00-144
Key chain attachable!
This instrument is used to measure the distance between the thyroid notch and the lower border of the mandible in the midline with the patient positioned in full neck extension. Difficulty in visualization of the larynx can be anticipated when the distance between the thyroid notch and the mandible is less than the length of the gauge (6.5cm).
Intubation Aids for Difficult Airways

Fiber Optic Lighted Stylette

The Fiber Optic Malleable Lighted Stylette provides illumination during intubation and also incorporates the features of a malleable stylette. With the benefits of Fiber Optics, the “Extra Bright” bulb is securely encased in the handle (#00-471). The lighted malleable stylette assists in the visualization required for the proper placement of the tracheal tube during intubation and effectively illuminates (trans-tracheal) the soft tissue of the neck. The included stylette stop (#00-479) provides reliable positioning of the E.T. Tube during use. Uses: 2 “AA” Batteries (#P-154-AA).

#00-469 5mm minimum size of ETT. (Adult, 36cm)
#00-470 3mm minimum size of ETT. (Pediatric, 25cm)

Stylette Replacements and Accessories

#00-469-1 Replacement Stylette (Adult, 36cm)
#00-470-1 Replacement Stylette (Pediatric, 25cm)
#00-471 Spare Handle assembly only
   (Uses 2 “AA” batteries #P-154-AA)
#00-355-XB Light Bulb, Replacement, Extra Bright

Related Products

#00-478 Suction Stylette
   For intubation and suction. Soft malleable copper. 38cm (15”) length.

#00-479 Stylette Stop
   Adjustable clamping stop of black delrin for use with the copper stylettes
   #00-478, #00-469 and #00-470. Has 15mm Female end to hold ETT.

Magill Forceps

These forceps are made of highly-polished stainless steel in three sizes. Closed tip (closes completely) and open eye design easily positions ETT’s during blind nasal intubation.

#00-476-I Infant- 6”
#00-476 Child- 8”
#00-477 Adult- 10”

#00-472 Young Tongue Forceps

Used for control and positioning of the tongue. 6¼ length, stainless steel with removable rubber tongue pads (Latex).
Intubation Aids for Difficult Airways

Infant Stylette #00-499
Stainless steel flexible wire with adjustable ETT stop, .035" diameter with 12” usable length.

Adjustable Laryngoscope Handle, Conventional #00-340
Similar in size and weight to the Standard, yet readily allows the blade to be firmly locked at four different angles for a variety of special uses:
- 45° - “Howland Lock” position, natural lift for bull neck, anterior larynx
- 90° - “Standard” position, identical to a Standard handle
- 135° - “Polio Blade” position, clears obstructions, extra room
- 180° - Parallel to blade, for obese, halo-traction, or cervical fractures
Requires two “AA” size batteries (#P-154-AA).

Howland Lock (Laryngoscope)
Natural lifting action simplifies laryngeal exposure, making intubation possible even in the most difficult cases (receding chin, anterior larynx, protruding teeth, bull neck, facial contractors, decreased jaw mobility, etc.). Built-in leverage prevents prying and reduces possibility of broken teeth. Can often make an otherwise certain tracheotomy unnecessary.

Conventional #00-343
GreenLine Fiber Optic #GL-343

Polio Blade (Laryngoscope, English Style)
A modification of the Macintosh blade which is offset from the handle at an obtuse angle to allow intubation of patients in respirators, body jackets, and other difficult arrangements. It is a curved blade type for indirect laryngoscopy.

Conventional #AP-375-3
GreenLine Fiber Optic #GL-375-3

Tracheal Tube Cleaning Brushes
Small 10-1/2” x 1/4” Dia. #00-458-S
Medium 12-3/4” x 3/8” Dia. #00-458-M
Large 17” x 1/2” Dia. #00-458-L
## Intubation Aids for Difficult Airways

### Mac Viewing Prisms

The Anesthesia Associates Macintosh Prism is available in three sizes to fit three popular Macintosh Laryngoscope Blades (sizes 2, 3, and 4) working with either Conventional or Fiber Optic styles. Clipped to the vertical wall of the appropriate size Macintosh Blade, this Prism is used when the view of the vocal cords is impaired during nasal intubation, and for post-operative examination of the larynx. It consists of an optically polished Prism (with attachment clip) that provides a refraction of 30° without image inversion.

| #00-349-2 | Prism to fit Mac blade size 2 |
| #00-349-3 | Prism to fit Mac blade size 3 |
| #00-349-4 | Prism to fit Mac blade size 4 |
| #00-349-5 | Prism set (1 each size 2, 3, & 4) |

### Macintosh “Flex-Tip” EC Blade with Articulating Tip

The versatile Flex-Tip “English Channel” (EC) Macintosh style curved blade is designed for the ultimate in clinician flexibility of use. A lever positioned along the handle (but attached to the blade) controls the flexing motion of the distal tip of the blade. The Flex-Tip blade is ideal for difficult intubations where controlled elevation of the epiglottis is desired with reduced force on the patient. It is extremely useful when encountering displaced larynx, teeth, tongue or mandible as well as with spinal injuries and neck stiffness. Available in three blade sizes 2, 3, & 4. Please see page 46, GreenLine, or page 55, Conventional, for sizing and detailed part numbers.

| #AP-380-X | Conventional |
| #GL-380-X | GreenLine Fiber Optic |

### Endoscopy Aids

#### Patil-Syracuse Oral Airway (Aluminum)

Unbreakable aluminum design provides airway and bite-block for endoscopy. Includes mid-line distal passage area to ease direction of endoscope toward both trachea and esophagus.

| #00-492 | Small Size 2 |
| #00-494 | Large Size 4 |
Stethoscopes and Accessories

Stethoscopes

Binaural Stethoscope
Extra long “Anesthesia Length” (36”) tubing from “Y” to Female Luer connector to allow for movement around patient. Available in Latex or Latex free as well as Luer or Luer Lock end fitting.

- Latex-Free, Luer: #LF-522
- Latex, Luer: #00-522
- Latex-Free, Luer Lock: #LF-522-L
- Latex, Luer Lock: #00-522-L

Chest Pieces

Wenger
Heavyweight Wenger chest piece of chrome plated brass. May be used on some areas of the body without being taped. Male Luer fitting for attachment.

- Adult: #00-390-A
- Child: #00-390-C

Standard
Lightweight with Male Luer fitting. Chrome plated brass.

- Premature: #00-442-P
- Infant: #00-442-I

Standard, MRI
Lightweight with Male Luer fitting. Delrin/Nylon. MRI compatible.

- Premature: #00-541
- Child: #00-542

Monaural Stethoscope
Monaural stethoscope, complete with PVC sound tubing, Female Luer connector and a comfortable single ear piece for constant monitoring of the patient. Special 42” length for anesthesia use. The monaural stethoscope is molded of sufficient durometer to accurately reflect sound, yet soft enough to assure comfort while being worn. Clinical experience indicates that the medium size normally fits the greater proportion of users. (Latex Free)

- Left Small: #00-383
- Right Small: #00-380
- Left Medium: #00-384
- Right Medium: #00-381
- Left Large: #00-385
- Right Large: #00-382

Martin
Lightweight Martin type, accommodates standard plastic 3/16” I.V. tubing. The angle of the inlet keeps the chest piece flat. One size for both premature and infant. Chrome plated brass.

#00-441
Blood Pressure and Accessories

**Accessories**

**Connector Set**

- **#00-517**
  Male and Female Luer x 3/16” Hose Barbs, aluminum

- **#00-517-L**
  Male and Female Luer Lock x 3/16” Hose Barbs, Chrome plated brass

- **#00-519**
  Aneroid blood pressure gauge. Certified. Meets federal specifications. 300mm Hg maximum reading.

**Connector Set**

- **#00-496**
  Latex
  Bulb and Valve Assembly (Standard)

- **#00-498**
  Latex
  Bulb Only (Standard)

- **#00-557**
  Latex
  Bulb Only (Large)

- **#00-558**
  Latex
  Bulb and Valve Assembly (Large)

- **#00-558**
  Latex Free

- **#00-557**
  Latex Free

- **#00-518**
  Latex
  Bulb and Valve Assembly (Standard)

- **#00-498**
  Latex Free

- **#00-558**
  Latex Free

- **#00-518**
  Latex
  Bulb and Valve Assembly (Standard)

**Double-Sided Adhesive Disks**

- **#00-390-DISC**
  Circular disks with center removed. Aggressive adhesive on both faces securely adhere any of the chest pieces (see previous page) to the patient. Available in rolls of 100 qty, or by the 50 roll case.

**Blood Pressure Cuffs and Bladders**

A wide variety of reusable Blood Pressure Cuff Assemblies and replacement Bladders are available. Contact AincA Customer Service for purchase details.
Pressure Manometers & Accessories

Manometer  
Superior accuracy over the range of -40 to +80 cm H₂O in a 2-1/2" diameter chrome plated case with 1/4" NPT Male bottom or back connection. Has front zero correcting screw.

Bottom Connection  #00-199
Back Connection  #00-199-BACK

Manometer, Max Hold Pointer  #00-199-MAX
#00-199 gauge with resettable low friction pointer to capture max/min pressure reading. Manual reset on dial face.

Manometer, MRI Compatible  #00-199-MRI
Constructed of brass and synthetics for MRI environment. Range of -40 to 80 cm H₂O in a 2½” diameter painted brass case with a 1/4” NPT-Male bottom connection. Has front zero correcting screw.

Gauge Guard (only)  #00-150
To fit any #00-199 style Manometers. Constructed of PVC elastomer with rear mounted self-adhesive mushroom-head attachment strips.

Dovetail Manometer Mounting  #00-195
For use with #00-199 or #00-274 Manometers. Two piece assembly mounts to vertical surface and gauge back. Gauge is easily removed from wall by sliding up.

Swivel Manometer Mounting  #00-196
For use with #00-199 or #00-274 Manometers. Mounts to any flat surface and to the base of the gauge. Provides 4½” swivel arms w/ 180° dual pivot. Stainless and Delrin.

Pole Clamp, Manometer Mounting, Standard  #00-200
For use with #00-199 or #00-274 Manometers. Accommodates up to 1” pole, square or round. Attaches to mounting screws on back of gauge.

Pole Clamp, Manometer Mounting, Large Pole  #00-200-S
For use with #00-199 or #00-274 manometers. Accommodates up to 1½” pole. Attaches to mounting screws on back of gauge.

Manometer w / APL Valve  #00-274
#00-199 Manometer with “T” (1/4” tube) and APL valve adjustable from 0-55 cm H₂O at 9 lpm. A complete pressure monitoring and limiting system in one.

Manometer, Max Hold w / APL Valve  #00-274-MAX
#00-274 system with resettable pointer to capture maximum pressure reading.

Manometer Kit w/ Harness and Adapters  #00-275
#00-199 Manometer with 15mm Female Adapter (#00-275-1), Neoprene elbow (#00-452), and Harness (#00-276). Used post-operatively for lung function evaluation. See image next page.
Pressure Manometers & Accessories

#00-275-MAX  Manometer Kit, Max Hold w/ Harness
#00-275 system with resettable pointer to capture max/min pressure reading.

#00-275-1  1/4” NPT-Female x 15mm Female Adapter

#00-276  Manometer Harness (Latex Free)
For use with #00-199, #00-274 and #00-275 gauge assemblies.

#00-489  Adapter, Tube
1/4” NPT-Female x 90 degree 1/4” tubing nipple for #00-199's.

#P-159  Adapter, “T”
1/4” NPT-Female x 1/2”-20 thread x 1/4” hose nipple.

#P-158  Replacement Crystal, Standard
For use with #00-199, #00-274, and #00-275 gauges.

#P-158-MAX  Replacement Crystal, Max Hold Pointer
For use with #00-199-MAX, #00-274-MAX, and #00-275-MAX gauges.

#00-266-G  Pressure Manometer “T”
#00-199 manometer mounted on a chrome plated brass “T” that is 22mm Female by 22mm Male/15mm Female.

#00-266-S  Adapter “T”
1/4” NPT-Female by 22mmFemale by 22mmMale/15mmFemale “T”, chrome plated brass.

Pop-Off Valves

#00-118  Scavenging Pop-off Valve (True APL)
This relief valve is adjustable from 0 to 60cm H₂O back-pressure (at 10 lpm nominal flow) and has an integral back-flow check-valve. Being a true Adjustable Pressure Limiting (APL) Scavenging Pop-Off Valve allows the pre-setting of the system back-pressure, with any excess pressure being allowed to pass through the valve. Consists of a 3/4”- 20 inlet with sealing lock-ring, and a 19mm Male gas evacuation outlet port. When turned fully clockwise, provides 60 cm H₂O max system pressure, but does not provide a leak-tight seal. Constructed of durable chrome plated brass.

#P-505  Lock Nut/Seal Replacement Kit
For use on #00-113 and #00-118 scavenger valves.

#00-273  Pressure Relief Valve (True APL)
True Adjustable Pressure Limiting (APL) Valve with settings of 0-55 cm H₂O at 9 1pm. Mounting thread is 1/2”-20. Chrome plated brass.

#00-398  Spring-Load Pop-off, Pediatric
Chrome plated brass with stainless steel spring and synthetic disc. Mounting thread is 3/8”-24.

#00-399  Pop-off, Bloomquist Circle
#00-398 pop-off valve with a 15mm Male adapter. Chrome plated brass.
Face Masks, Reusable

Clear Silicone Face Mask (Latex Free)
A soft lipped, high temperature Silicone mask available in 6 sizes. The smooth Silicone construction provides transparency over the entire surface as well as a durable, high contact fit and excellent seal for patient comfort. Polycarbonate hook rings are included in sizes 2 thru 5. Assembly is Latex Free and MRI compatible.

<table>
<thead>
<tr>
<th>Size</th>
<th>Round</th>
<th>15mm - Male</th>
<th>Sm. Infant</th>
<th>#LF-136-0</th>
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<td>15mm - Male</td>
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<td>Round</td>
<td>22mm - Female</td>
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<td>Size 5</td>
<td>Contour</td>
<td>22mm - Female</td>
<td>Lg. Adult</td>
<td>#LF-136-5</td>
</tr>
</tbody>
</table>

Ambu Style Neoprene Face Mask (Latex Free)
Non-conductive transparent masks ideal for resuscitation, obstetrics, emergencies, and anesthesia where conductivity is not essential, but where transparency is advantageous. Rigid shell and inflatable cuff seal. Latex Free.

| Size 0A| 15mm - Male | Infant | #LF-172-0A |
| Size 0 | 22mm - Female | Infant | #LF-172-0 |
| Size 2 | 22mm - Female | Child | #LF-172-2 |
| Size 3/4 | 22mm - Female | Medium | #LF-172-4 |
| Size 5 | 22mm - Female | Adult | #LF-172-5 |

B.O.C. Style Face Mask
A Connel type mask of conductive neoprene dipped over latex rubber, truly anatomical in shape, having an inflatable cuff seal and moldable wall structure. Balloon molded in one piece. The mask has a five-pronged ring on all sizes which will accommodate any two-, three-, or four-tailed harness. 22mm Female fitting. Contains Latex.

| Size 0 | Premature | #E-135-0 |
| Size 1 | Infant | #E-135-1 |
| Size 2 | Child | #E-135-2 |
| Size 3 | Small | #E-135-3 |
| Size 4 | Medium | #E-135-4 |
| Size 5 | Large | #E-135-5 |
| Size 6 | Extra Large | #E-135-6 |

R.B.S Style Face Mask (Latex Free)
These masks were designed from a series of molds taken from a large number of infants to obtain the correct, average contour for an overall tight seal with minimum dead space under the mask. 22mm Female fitting. Clear Silicone for aided visualization. Latex Free.

| Size 0 | Premature | #LF-157-0 |
| Size 1 | Infant | #LF-157-1 |
| Size 2 | Small Child | #LF-157-2 |
| Size 3 | Child | #LF-157-3 |
Face Masks, Reusable

Head Harnesses (Latex Free)
Head harnesses of black conductive, neoprene rubber. Large holes permit ventilation but it will not slip over small heads. Pressure is equally distributed over a large area. Latex free

#LF-143-A
Adult
#LF-143-B
Child
#LF-143-C
Pediatric

#00-333-2
For RBS masks; fits between mask and adapter.

#00-333-4
For Ambu, RBS, and Silicone type face masks.

Hook Rings
2 Prong

4 Prong

Laryngeal Mask Airway
The Ultra family of REUSABLE laryngeal mask airways. Constructed from 100% silicone, the sturdy cuff and tube provides 40 uses at an economical price. Equipped with an anatomically correct tip for proper fit and seal. The silicone cuff is soft and flexible at any temperature while remaining resistant to punctures and tearing. Latex Free and DEHP Free.

Ultra EX

<table>
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<tr>
<th>Size</th>
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<th>Max. OD</th>
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<td>Size 6</td>
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<td>17.1mm</td>
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Ultra Flex EX

Stainless steel wire reinforced, ultra flexible design.

<table>
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<tbody>
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</tr>
<tr>
<td>Size 6</td>
<td>9.4mm</td>
<td>12.6mm</td>
</tr>
</tbody>
</table>
Mask Elbows

Aluminum: Non-Conductive, Anodized
Lightweight; Latex Free

Mask Elbow (Sampling) #00-224
With Female Luer Lock sampling port. Machine end 15mm Male. Patient end is nominal 22mm Male and 15mm Female. (Also available in “T”, see #00-090 on Page 34.)

Inhalant Mask Elbow #00-227
Elbow for in-line dosing (bronchodilation and other) with sealing cap. Accepts standard metered dose inhalant canisters of 0.125” max tip diameter. Machine end is 15mm Male. Patient end is nominal 22mm Male and 15mm Female.

Mask Elbow (CPAP) #00-229
Elbow with feed tube (1/4”) coming in the top, spring-loaded pop-off valve (adjustable), and 1/4” connection for pressure manometer. Machine end is 15mm Male. Patient end is nominal 22mm Male and 15mm Female. With the fresh gas feed tube within 9/16” of the mask fitting, the kinetic energy of the incoming gas decreases dead space in the elbow.

Mask Elbow “T” Tube #00-232
Includes ventilating thumb port (1/2” O.D. x 3/8” I.D.). Machine end is 15mm Male. Patient end is nominal 22mm Male and 15mm Female.

Mask Elbow #00-233
Machine end is 15mm Male. Patient end is 22mm Male and 15mm Female.

Norman Type Mask Elbow #00-234
Includes fresh gas feed nipple (1/4”) coming down through the top to within 9/16” of the mask fitting. The kinetic energy of the incoming gases decreases dead space in the elbow. Machine end is 15mm Male. Patient end is 22mm Male and 15mm Female.

Mask Elbow with Pop-Off #00-233-P
Elbow with spring-loaded pop-off valve (adjustable). Machine end is 15mm Male. Patient end is nominal 22mm Male and 15mm Female.

Mask Elbow with Pop-off, Large Size #00-247
Large size spring-loaded pop-off valve (adjustable). Machine end is 22mm Male. Patient end is nominal 22mm Male and 15mm Female.
Mask Elbows

Chrome Plated Brass
Latex Free

#00-488 Mask Elbow, CPAP
Elbow with feed tube (1/4”) coming in the top, spring-loaded pop-off valve (adjustable) and 1/4” connection for pressure manometer. Machine end is 15mm Male. Patient end is nominal 22mm Male and 15mm Female. With fresh gas tube within 9/16” of the mask filling, the kinetic energy of the incoming gas decreases dead space in the elbow.

#00-490 Mask Elbow, CPAP
Same as the #00-488 CPAP elbow above, except with no pressure port.

#00-437 Rendell-Baker Bifurcated Mask Chimney Piece
With gas inlet and spring-loaded pop-off (adjustable). The machine end is 15mm Male and the patient end is 7/8” O.D. for masks. Includes a 5/16” diameter side port nipple.

#00-443-A Keets Type Hanks-Rackow Elbow, Side Port
15mm Male on machine end. Patient end is 22mm Male and 15mm Female with a 1/4” side inlet which extends down to within 9/16” of the mask fitting, permitting an ideal “T” tube principle for the flushing of the exhaled gas from under a mask.

#00-443-B Keets Type Hanks-Rackow Elbow, Top Port
15mm Male on machine end. Patient end is 22mm Male and 15mm Female with a 1/4” top inlet which extends down to within 9/16” of the mask fitting, permitting an ideal “T” tube principle for the flushing of the exhaled gas from under a mask.

#00-482 Keets Type Hanks-Rackow Elbow, Top Inlet, Side Port
1/4” top inlet which extends down to within 9/16” of the mask fitting, permitting an ideal “T” tube principle for the flushing of the exhaled gas from under a mask. Also has a 1/4” side port. 15mm Male on machine end. Patient end is 22mm Male and 15mm Female.

#00-132 Hanks-Rackow Elbow
Sweep elbow with 15mm Male on machine end. Patient end is nominal 22mm Male and 15mm Female.

#00-133 Hanks-Rackow Elbow with Side Inlet
Sweep elbow with a 1/4” side inlet for introducing fresh gas at the patient. 15mm Male on machine end. Patient end is 22mm Male and 15mm Female.
Mask Elbows

Conductive Neoprene
Latex free, Lightweight, Autoclavable.

Mask Elbow #00-452
Mask Elbow with 15mm Male on machine end. Patient end is nominal 22 mm Male with taper and shoulder for secure fit in masks and 15mm Female for tracheal connectors.

Mask Elbow with Pop-off #00-452-P
Elbow with a spring-loaded, pop-off valve (adjustable). Machine end is 15mm Male. Patient end is 22mm Male and 15mm Female.

Mask Elbow with Side Inlet #00-452-I
Elbow with side inlet (5/16”) for introducing gases at the patient. Machine end is 15mm Male. Patient end is 22mm Male and 15mm Female.

Mask Elbow with Side Inlet and Pop-off #00-452-IP
Elbow with a spring-loaded, pop-off valve (adjustable) and side inlet (5/16”). Machine end is 15mm Male. Patient end is 22mm Male and 15mm Female.

Modified Ayres “T” Tube #00-456
15mm Male on machine end. Patient end is nominal 22mm Male with taper and shoulder for secure fit in masks and 15mm Female for tracheal connectors, with 5/16” side port.

Plastic
Latex Free, Lightweight

Mask Elbow with Pop-off, Large size, Acrylic #00-223
Large size spring-loaded pop-off valve (adjustable) on a semi-transparent acrylic body. Machine end is 22mm Male. Patient end is nominal 22mm Male and 15mm Female.

Non-Rebreathing Valves

Stephen Slater Valve (Bifurcated) #00-420
Inline “one way” Non-Rebreathing valve with spill check valve closed by thumb action. 15mm Female at patient end and 15mm Male at machine end. Chrome plated brass.

AincA Non-Rebreathing Valve, 90° #00-422
Ideal 90° non-rebreathing and resuscitation valve (one way) with only 12cc dead space and minimum resistance. For both infants and adults. Positive pressure thumb button instantly closes the adjustable release valve. Machine end is 7/8” Male, patient end is 22mm Male x 15mm Female. Chrome plated brass.
Circuit “Y” Pieces

Stainless Steel

Pediatric E/T “Y”

#00-237
Pediatric E/T “Y” Bifurcated. Patient end is 15mm Female. Machine ends are 5/8” OD Male.

Adult E/T “Y”

#00-238
Adult E/T “Y” Bifurcated. Lightweight stainless steel with septum and harness knobs. Patient end is 15mm Female. Machine ends are 7/8” O.D. Male

Chrome Plated Brass

Straight “Y” Piece with Pop-off

#00-405
Beveled 15mm Female on patient end. Machine ends are 7/8” O.D. Male. Includes large sized spring-loaded pop-off valve (adjustable) and attachment posts.

Straight “Y” Piece with Posts

#00-406
Beveled 15mm Female on patient end. Machine ends are 7/8” O.D. Male. Includes attachment posts.

Rabbit Ears “Y”

#00-411
Modified Ayers “T” Tube. Legs are 3/8” O.D. Male and the patient end is 15mm Female.

Inhaler “Y”

#00-413
15mm female with two 1/2” O.D. legs.

Carlen Adapter 45°

#00-388
Machine end is 15mm Male. Curved adapter with 3/8” O.D. Male tubes.

Carlen Adapter 90°

#00-401
Machine end is 15mm Male. Curved adapter with 3/8” O.D. Male tubes.

Carlen Adapter

#00-402
Machine end is 15mm Male. Straight adapter with 3/8” O.D. Male tubes.

Conductive Neoprene

Chimney “Y”

#00-450
90° turn “Y”. Patient end is nominal 22mm Male and 15mm Female. Machine ends are 7/8” O.D. Male.

Chimney “Y” with Pop-off

#00-450-P
90° turn “Y” with spring-loaded, pop-off valve (adjustable). Patient end is nominal 22mm Male and 15mm Female. Machine ends are 7/8 O.D. Male.

Catheter “Y”

#00-451
In-line “Y”. Patient end is nominal 22mm Male and 15mm Female. Machine ends are 7/8” O.D. Male and 5/8” I.D. Female.

Catheter “Y” with Pop-off

#00-451-P
In-line “Y” with spring-loaded, pop-off valve (adjustable). Patient end is nominal 22mm Male and 15mm Female. Machine ends are 7/8” O.D. Males and 5/8” I.D. Females.
Circuit “T” Pieces

“T” Tubes, Stainless Steel

Summers Type “T” Tube

Incorporates all favorable characteristic principles of “T” pieces: negligible expiratory resistance, simplicity and minimum dead space. With the fresh gas inlet within 9/16” of the end fitting, the kinetic energy of the incoming gas decreases dead space in the fitting. Patient end is 15mm Female. Machine end is 15mm Male. Inlet is 1/4” O.D. Male. Lightweight stainless steel. (Latex Free)

Washington Type “T” Tube

Incorporates all favorable characteristic principles of “T” piece design in a shorter length version. Additionally, with the fresh gas inlet within 9/16” of the end fitting, the kinetic energy of the incoming gases decreases dead space in the fitting. Patient end is 15mm Female. Machine end is 15mm Male. Inlet is 1/4” O.D. Male. Lightweight stainless steel (Latex Free)

Inline “T”, Chrome Plated Brass

Sampling “T”, Luer

15mm Male x 15mm Female ends with a Female Luer Lock sampling port. Chrome plated brass. (Latex Free)

Catheter or Hose Adapter

15mm Male x 15mm Female with 5mm (3/16”) Male sampling hose fitting. Chrome plated brass. (Latex Free)

Large Bore Gas Inlet “T” Tube

15mm Male x 15mm Female “T” tube with angled large bore gas inlet 3/8” O.D. Male. Chrome plated brass. (Latex Free)

T.I.B. Adapter

22mm Male x 22mm Female with 3/8” Male side tubing connection at 90°. Chrome plated brass. (Latex Free)

Scavenging “T” Adapter

19mm Male x 19mm Male x 19mm Male. Chrome plated brass. (Latex Free)

“T”, 1/4” NPT

22mm Female x 22mm Male / 15mm Female “T” with a 1/4” NPT-Female port. Chrome plated brass. (Latex Free)

“T” with Manometer

#00-199 manometer mounted on a chrome plated brass “T” that is 22mm Female x 22mm Male / 15mm Female. (Latex Free)
Flex Connector Tubes, Reusable

**Semi-Clear**
Lightweight, Cream Colored Polyester (Latex Free)

Flexible, semi-transparent, 9/16” smooth I.D. spiral reinforced tubing. Ends are: rigid 15mm Male by Silicone 15mm Female. Autoclavable.

- #00-436-06: 6” overall length
- #00-436-09: 9” overall length
- #00-436-12: 12” overall length

Version with 15mm Female by 15mm Female Silicone ends.

- #00-436-10F: 10” overall length

**EPDM Synthetic Rubber**
(Latex Free)

Flexible EPDM synthetic rubber connectors (black) with 15mm Male by 15mm Female ends. Lengths to 36” available upon request. Available with Delrin, stainless steel, or aluminum ends.

<table>
<thead>
<tr>
<th>Delrin Ends</th>
<th>Stainless Steel Ends</th>
<th>Aluminum Ends</th>
</tr>
</thead>
<tbody>
<tr>
<td>#00-435-03</td>
<td>#00-438-03</td>
<td>#00-439-03</td>
</tr>
<tr>
<td>#00-435-06</td>
<td>#00-438-06</td>
<td>#00-439-06</td>
</tr>
<tr>
<td>#00-435-09</td>
<td>#00-438-09</td>
<td>#00-439-09</td>
</tr>
<tr>
<td>#00-435-13</td>
<td>#00-438-13</td>
<td>#00-439-13</td>
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<tr>
<td>#00-435-XX</td>
<td>#00-438-XX</td>
<td>#00-439-XX</td>
</tr>
</tbody>
</table>

- 3” overall length
- 6” overall length
- 9” overall length
- 13” overall length
- Custom Length

**Teflon**
(Latex Free)

Flexible Teflon Connector (transparent/white) with 15mm Male by 15mm Female ends. The ends are firmly threaded into the convolutions of the tubing making it easy to assemble connections of different lengths. An inert, long-lasting, lightweight, flexible, translucent, and heat sterilizable connector. Other lengths available upon request.

- #00-483: 5-1/2” overall length

The flexible portion of tube is 4” long.

**Chrome Plated Brass**

This unusual connector is “semi-flexible” and will retain the shape to which it is positioned. Constructed of chrome plated brass, the bellows end in 15mm Male and 15mm Female ends. (Latex Free)

- #00-484: 4” overall length
Breathing Tubes, Reusable

**Semi-Clear**
Latex Free
Lightweight, Cream Colored, Polyester and Silicone

**Pediatric, 9/16” Silicone 22mmF x 15mmF**
Flexible, semi-transparent 9/16” smooth I.D. spiral reinforced tubing with molded 7/8” (22mm) Silicone Female and 5/8” (15mm) Silicone Female ends.

- 30” length  #E-210-30
- 36” length  #E-210-36

**Adult, 9/16” Silicone 22mmF x 22mmF**
Flexible, semi-transparent 9/16” smooth I.D. spiral reinforced tubing with 22mm Silicone Female Fittings at both ends.

- 24” length  #E-215-24
- 36” length  #E-215-36
- 48” length  #E-215-48

**Adult, 3/4” Silicone 22mmF x 22mmF**
Flexible semi-transparent, smooth 3/4” I.D., spiral reinforced tubing with 22mm Silicone Female fittings at both ends.

- 8” length  #E-220-08
- 12” length  #E-220-12
- 24” length  #E-220-24
- 36” length  #E-220-36
- 48” length  #E-220-48
- 72” length  #E-220-72

**EPDM, Heavy Duty, Conductive Synthetic Rubber, Latex Free**
Highest quality, Heavy Duty, Conductive, EPDM rubber breathing tubes of one-piece construction with molded 7/8” bushings (22mm) and full 7/8” I.D. Available in three lengths.

- 23” length  #E-139-A
- 32” length  #E-139-B
- 42” length  #E-139-C

**Neoprene, Lightweight, Conductive Synthetic Rubber, Latex Free**
Lightweight dipped neoprene with molded 7/8” (22mm) Female rubber bushing on machine end and 15mm Female stainless steel bushing on patient end.

- 22” length  #E-201
- 30” length  #E-203

Medium-weight version with 22mm Female molded fitting at both ends

- 36” length  #E-204
Breathing Tubes, Reusable

Evacuation Tubing, EPDM 19mmF x 19mmF, Latex Free
Flexible EPDM synthetic rubber tubing (black) with integral 19mm Female cuffs at both ends.

#LF-217-10 10” Overall Length
#LF-217-30 30” Overall Length
#LF-217-39 39” Overall Length

#00-217 Tubing EPDM, reusable (Latex Free)
EPDM synthetic rubber 5/8” tubing (black). Specify length up to 36”.
Uses adapter end fittings shown below to build your own tube set.

“Build Your Own” Tube Set!
EPDM (synthetic rubber) corrugated black tubing (5/8”) with Delrin, aluminum, or stainless steel Male or Female end fittings!

Any combination of length up to 36”.

Select the tubing length and end fittings (2) for each tube set you need.
Assembly available under separate part number.

Adapters for 5/8” Flex Hose
Two (2) Needed Per Set

Delrin
#00-204 15mm Male
#00-205 15mm Female

Stainless Steel
#00-218 15mm Male
#00-219 15mm Female

Aluminum
#00-220 15mm Male
#00-221 15mm Female
#00-481 22mm Female
Adaptors and Connectors

Chrome Plated Brass
Durable and Rugged

Mask Adapter (15mmM by 22mmM/15mmF)  #00-129
15mm Male on the machine end. Patient end is nominal 22mm Male/15mm Female.

Universal Adapter (22mmF by 15mmF)  #00-320
Large end is 22mm Female. Small end is 15mm Female.

Scavenging Adapter (22mmF by 19mmM)  #00-091
22mm Female x 19mm Male.

Vaporizer Inlet Adapter (23mmF by 5/16””)  #00-407
23mm Female x 5/16” hose nipple.

Vaporizer Inlet Adapter (23mmF by 1/4”)  #00-407-S
23mm Female x 1/4” barb fitting.

Vaporizer Outlet Adapter (23mmM by 5/16””)  #00-408
23mm Male x 5/16” hose nipple.

Vaporizer Outlet Adapter (23mmM by 1/4””)  #00-408-S
23mm Male x 1/4” barb fitting.

Delrin
Lightweight, Black

Scavenger Adapter (US/EU) (19mmM by 30mmM)  #00-801
19mm Male x 30mm Male

Scavenger Adapter (US/EU) (19mmM by 30mmF)  #00-802
19mm Male x 30mm Female

Scavenger Adapter (19mmF by 22mmM)  #00-804
19mm Female x 22mm Male

Scavenger Adapter (19mmM / 15mm by 22mmF)  #00-805
19mm Male / 15mm Female x 22mm Female
Adaptors and Connectors

**Stainless Steel**
Lightweight, Thin Wall

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>#00-241</td>
<td>Male Connector (22mmM by 22mmM)</td>
<td></td>
</tr>
<tr>
<td>#00-184</td>
<td>Male Connector (15mmM by 15mmM)</td>
<td></td>
</tr>
<tr>
<td>#00-430</td>
<td>Female Connector (15mmF by 15mmF)</td>
<td></td>
</tr>
<tr>
<td>#00-235</td>
<td>Male Bushing (15mmM by 5/8” tube)</td>
<td></td>
</tr>
<tr>
<td>#00-236</td>
<td>Female Bushing (15mmF by 5/8” tube)</td>
<td></td>
</tr>
</tbody>
</table>

**Chrome Plated Brass**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>#00-315</td>
<td>Curved 90°/ Capped Suction</td>
<td></td>
</tr>
<tr>
<td>#00-316</td>
<td>Curved 90°/ Suction</td>
<td></td>
</tr>
<tr>
<td>#00-317</td>
<td>Curved 90°</td>
<td></td>
</tr>
<tr>
<td>#00-318</td>
<td>Curved 45°</td>
<td></td>
</tr>
<tr>
<td>#00-319</td>
<td>Right Angle</td>
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</table>

**Aluminum**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>#00-440-L</td>
<td>Rendell Baker/ Ayres “T”, Long</td>
<td></td>
</tr>
<tr>
<td>#00-440-S</td>
<td>Rendell Baker/ Ayres “T”, Short</td>
<td></td>
</tr>
</tbody>
</table>
Tracheal Tube Connectors

15mm Male Fitting by Metric ID Nipple

**Straight, Disposable Plastic**  
#00-309-#  
High-density, translucent plastic connectors are sized in accordance with Z79 Standards. A deep knurl around the circumference of the upper edge makes a firm grip possible for sealing and removing. 15mm Male by nipple sizes 3mm to 12mm I.D. (10 sizes, specify).

**Straight, Stainless Steel**  
#00-310-#  
Thin-walled, precision-ground finish, solid stainless steel. Connectors are sized in accordance with Z79 Standards. 15mm Male by nipple sizes 5mm to 11mm I.D. (7 sizes, specify).

**Straight, Chrome Plated Brass**  
#00-311-#  
Durable and rugged. Connectors are sized in accordance with Z79 Standards. 15mm Male by nipple sizes 3mm to 9mm I.D. (7 sizes, specify).

**90° Curved, Chrome Plated Brass**  
#00-312-#  
Curved to a right angle. 15mm Male by nipple size 3mm to 9mm I.D. (7 sizes, specify).

**60° Curved, Chrome Plated Brass**  
#00-313-#  
Curved back to within 60° of itself. 15mm Male by nipple sizes 3mm to 9mm I.D. (7 sizes, specify).

**NOTE:** Order by part number and size (i.e. for a 5mm unit, #00-310-05). “mm” size designation in ETT adaptors indicate the inside diameter of the product to match the ID of the ETT. Fit into the ETT will be tight on most tubes, depending on stiffness.

**Adult Universal Racine Adapter**  
#00-334  
Connects to ANY size 7mm to size 10mm tracheal tube. 4” flexible Silicone connector with 15mm Male machine end and flexible diaphragm on patient end to stretch over tube end. Racine type.
Circuit Components

Single Tube Breathing Circuits

Universal Control Arm

For use with all single tube systems such as Magill, Mapleson, Jackson-Reese, and Bain, with adjustable throttling valve (#00-113), -40 to +80 cm H₂O respiratory pressure manometer (swivel mounted), coaxial 22mm Male x 15mm Female circuit mount nipple, 7/8” vertical bag mount, 19mm Male gas evacuation port nipple, capped ports for the attachment of a disconnect alarm and/or ventilator switch valve (Ref. #00-116). Can be easily mounted on the absorber pole or gas machine (provided 1/2” x 3” stud & clamp system). The manifold is anodized aluminum with chrome plated brass connectors.

Selector Valve, Bag Switch-over

Bag switch-over valve: to mount on Universal Control Arm. (Ref. #00-115). 22mm Male ventilator connection, 7/8” bag vertical nipple and 7/8”-27 mounting thread with locking ring and O-ring seal.

Inline Pop-Off

In-Line Relief Valve (True APL)

“T” of 22mm Female x 22mm Male/15mm Female with #00-273 relief valve, adjustable from 0-55cm H₂O @ 9 lpm, chrome plated brass.

In-Line Relief Valve (True APL)

“T” of 15mm Male x 15mm Female with #00-273 relief valve, adjustable from 0-55cm H₂O @ 9 lpm.

#00-251
#00-251-D

Chrome Plated Brass
Lightweight Black Delrin

15mm “T” - O₂ Sensor

“T” of 15mm Male x 15mm Female, with port to accept oxygen analyzer sensor. For use in single tube systems: Magill, Mapleson, Jackson-Reese, and Bain.

#00-257
“T” with Ohmeda insert

#00-259
“T” with Drager insert

#00-261
“T” with Instrumentation Labs insert

#00-262
“T” with Criticon insert

#00-263
“T” only, No Insert

Same as above with a side port for use with disconnect alarm, or pressure manometer.

#00-264
“T” w/ side inlet & Instrumentation Labs insert

#00-265
“T” w/ side inlet & Criticon insert
Circuit Components

22mm “T” - O₂ Sensor
22mm Female by 22mm Male/15mm Female with port to accept oxygen analyzer sensor.

“T” with Ohmeda insert #00-258
“T” with Drager insert #00-260
“T” with Instrumentation Labs insert #00-267
“T” with Criticon Insert #00-268

Instrumentation Labs O₂ Adapter only #00-269
Criticon O₂ Adapter only #00-270
Drager O₂ Adapter only #00-271
Ohmeda O₂ Adapter only #00-272

Bag and Tubing Adapters

Tube Adapter (Aluminum) #00-095
Corrugated tube adapter bushing 7/8 O.D. Male by 15mm Female.

Bag Bushing: Cage (Chrome Plated Brass) #00-097
Reduces 7/8” bag to 15mm Female, with cage on bag end.

Bag Bushing: Cage (Stainless Steel) #00-219-S
Adapts 5/8” rolled neck bag to 15mm Female with cage on bag end.

Bag Bushing (Chrome Plated Brass) #00-098
Reduces 7/8” bag or tube to 15mm Female.

Bag Bushing (Neoprene) #00-455
Reduces 7/8” bag or tube to 15mm Female.

Male Bushing (Stainless Steel) #00-235
15mm Male x 5/8” (rolled neck).

Female Bushing (Stainless Steel) #00-236
15mm Female x 5/8” (rolled neck).

Bag Bushing (Delrin) #00-205
15mm Female x 5/8” (rolled neck).

Hose Adapter (Delrin) #00-414
15mm Female x 1/2” diameter hose connector.
## Breathing Bags, Reusable

### PEDIATRIC Fluted, Black Neoprene, Latex Free

5/8” neck with a 15mm Female stainless steel bushing, conductive.

<table>
<thead>
<tr>
<th>Part</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>#E-191</td>
<td>500cc</td>
</tr>
<tr>
<td>#E-193</td>
<td>1000cc</td>
</tr>
<tr>
<td>#E-195</td>
<td>1500cc</td>
</tr>
</tbody>
</table>

### PEDIATRIC Flat, Blue Neoprene, Latex Free

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#LF-122-05-B</td>
<td>With 5/8” (15mm) rubber bushing. 500cc bag</td>
</tr>
<tr>
<td>#LF-122-05-TB</td>
<td>With 5/8” (15mm) rubber bushing. 500cc bag with tail tap valve.</td>
</tr>
</tbody>
</table>

### ADULT Fluted, Black Neoprene, Latex Free

With 7/8” (22mm) Female rubber bushing, conductive.

<table>
<thead>
<tr>
<th>Part</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>#LF-124-05</td>
<td>500cc</td>
</tr>
<tr>
<td>#LF-124-10</td>
<td>1 Liter</td>
</tr>
<tr>
<td>#LF-124-20</td>
<td>2 Liter</td>
</tr>
<tr>
<td>#LF-124-30</td>
<td>3 Liter</td>
</tr>
<tr>
<td>#LF-124-40</td>
<td>4 Liter</td>
</tr>
<tr>
<td>#LF-124-50</td>
<td>5 Liter</td>
</tr>
</tbody>
</table>

With 3/4” (19mm) Female rubber bushing, conductive.

<table>
<thead>
<tr>
<th>Part</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>#LF-125-30</td>
<td>3 Liter</td>
</tr>
<tr>
<td>#LF-125-50</td>
<td>5 Liter</td>
</tr>
</tbody>
</table>

### ADULT Flat, Blue Neoprene, Latex Free

With 7/8” (22mm) rubber bushing.

<table>
<thead>
<tr>
<th>Part</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>#LF-122-05</td>
<td>500cc</td>
</tr>
<tr>
<td>#LF-122-10</td>
<td>1 Liter</td>
</tr>
<tr>
<td>#LF-122-20</td>
<td>2 Liter</td>
</tr>
<tr>
<td>#LF-122-30</td>
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<tr>
<td>#LF-122-40</td>
<td>4 Liter</td>
</tr>
<tr>
<td>#LF-122-50</td>
<td>5 Liter</td>
</tr>
</tbody>
</table>

### Test Lung, 500cc (Latex Free)

500cc test lung, Flat, with 7/8” (22mm) Female bushing. Latex free. Foam interior and external band mimic natural lung function.

### Test Lung, 750cc (Latex Free)

750cc test lung, Flat, with 7/8” (22mm) Female bushing. Latex free. Foam interior and external band mimic natural lung function.

### Kuhn Bag

22mm Female Rubber neck. 500cc flat Latex breathing bag with thumb controlled ventilating port on the side.
Bagtail Pop-Offs

**With Gas Evacuator**

These 5 units fit directly into the tail of the bag, or in-line, and connect to the hospital suction system. A negative relief feature prevents the suction from collapsing the bag or affecting gas flow.

**In-Line Evacuator, 1/4” Suction #00-379**

In-line gas evacuation valve with spring-loaded pop-off (adjustable). 15mm Male by 15mm Female, with 1/4” side tube for evacuation.

**In-Line Evacuator, 19mm Suction #00-379-S**

In-line evacuation valve with spring-loaded pop-off (adjustable) 15mm Male by 15mm Female with 19mm suction adapter, and additional 1/4” pressure port.

**Bagtail Valve #00-389**

Lightweight with a single hand slide adjustment, and negative relief. 3/8” bag nipple with 22mm Male/19mm Female evacuator fitting.

**Palm Type #00-393**


**90° Palm Type #00-394**

Single hand operation with spring-loaded pop-off (adjustable) in 90° version.

**Without Gas Evacuator**

These 5 units spill directly to the atmosphere.

**Bagtail Bleed Valve #00-387**

Dennison adjustable type. Lightweight aluminum. Anodized finish. 3/8” end.

**Palm Type #00-395**

Single hand operation with spring-loaded pop-off (adjustable). 3/8” end.

**APL Type #00-397**

True APL pop-off valve (0-55cm H₂O at 9 1pm) with 3/8” end. Delrin body with chrome plated brass valve.

**Straight Type #00-400**

This spring-loaded, pop-off valve (adjustable) inserts in the tail of a breathing bag. 3/8” end.

**Kuhn Bag #E-120**

500cc latex breathing bag with thumb ventilating port on the side, with 22mm Female rubber neck.

**CAUTION:** These valves are non-conductive. Do not use with explosive gases.
Tube Supports and Accessories

#00-391 Tube Support
A versatile breathing tube support which supports both adult and pediatric tubes for positioning, helping prevent accidental disconnects. Either end can be placed under table pad. Aluminum.

#00-416 Derbyshire Breathing Tube Support
Compact-sized tube support designed to slip under the table pad. Supports and holds various sized breathing tubes. Aluminum.

GioFlex Tube Positioning
A flexible support system that clamps securely to the OR table rail. Gooseneck arm allows an infinite number of stable locations and orientations to position the “hand”. Adult, and pediatric breathing tubes, as well as sensing and IV lines or transducers can be organized and positioned reliably. Anodized and powder-coated aluminum construction for easy cleaning.

#00-392-S 18” length

Wells Arms Protector
Designed for use in the operating room, recovery room, and in intensive care to protect blood pressure cuffs, IV and pressure lines from external interference. Aluminum.
Laryngoscopes

GreenLine Fiber Optic

An extensive array of GreenLine™ fiber optic (bulb in handle) lightweight laryngoscope blades fabricated from the finest 303 and 304 stainless steel with satin, non-glare finishes. The complete range of sizes and configurations are manufactured at very affordable prices. Various handle styles are available, all of which utilize a Xenon gas charged bulb for an extremely bright white light. Easily replaceable fiber bundles transmit the light from the handle, through the blade to the exit point. Workmanship on all parts is exemplary.

Compatibility – With the initial introduction of the Fiber Optic Laryngoscope in the 1980s, there was a lack of compatibility among the different manufacturers. This caused frustration to the user and danger to the patient by having a handle from one manufacturer that might not fit the blade from a different manufacturer. Rest assured that the GreenLine™ Fiber Optic System is completely compatible and interchangeable with the following “green coded” system brands: Welch Allyn, Heine, Propper, and Rusch*. This level of compatibility is important when considering the purchase of fiber optic laryngoscope blades and handles.

(*Brand names are the ™ of the individual companies)

Handles, Stainless Steel

Standard (29mm X 160mm) #GL-350
Lightweight standard. Requires two “C” batteries.

Standard with LED Bulb Assembly #GL-350-LED

Penlite (19mm X 160mm) #GL-354
Slender profile, standard length. Requires two “AA” batteries.

Penlite with LED Bulb Assembly #GL-354-LED

Bantam (32mm X 130mm) #GL-342
Short and light. Designed to accommodate difficult intubations of short neck, barrel-chested or large bosomed patients where distance between the mouth and chest prohibits the use of a standard length handle. Requires two “AA” batteries.

Pediatric (19mm x 122mm) #GL-336
Small and lightweight, excellent pairing for pediatric sized blades. Requires (1) qty L-123 cell.

Micro-Mini (19mm x 90mm) #GL-335
Micro size, but full function. Ideal for the tiniest of blades. Requires (1) qty L-123 cell.

Large (38mm x 190mm) #GL-341
Stout and long lasting. Requires two “D” batteries but can remain on for extended lengths of time without battery degradation.
# Laryngoscopes

**GreenLine Fiber Optic**

## Macintosh Blades

**Macintosh, English Standard (Curved)**

The original English profile with a soft, gentle curvature and a flange starting at the base of the blade and continuing to the tip as it narrows. The left-hand version is invaluable in cases with irregular dentition or a left-handed practitioner.

<table>
<thead>
<tr>
<th>Blade Code</th>
<th>Length (mm)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#GL-365-1</td>
<td>92</td>
<td>Infant, Size 1</td>
</tr>
<tr>
<td>#GL-365-2</td>
<td>100</td>
<td>Child, Size 2</td>
</tr>
<tr>
<td>#GL-365-3</td>
<td>130</td>
<td>Medium Adult, Size 3</td>
</tr>
<tr>
<td>#GL-365-3L</td>
<td>130</td>
<td>Left Handed, Size 3L</td>
</tr>
<tr>
<td>#GL-365-4</td>
<td>155</td>
<td>Adult, Size 4</td>
</tr>
<tr>
<td>#GL-365-5</td>
<td>184</td>
<td>Large Adult, Size 5</td>
</tr>
<tr>
<td>#GL-365-6</td>
<td></td>
<td>Complete Set</td>
</tr>
</tbody>
</table>

Includes blades Sz 1, 2, 3, 4, std handle, spare bulb, plastic case/foam.

## Macintosh, American Profile (Curved)

The American profile has a slightly more abrupt curvature and a flange that terminates prior to the tip of the blade.

<table>
<thead>
<tr>
<th>Blade Code</th>
<th>Length (mm)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#GL-368-0</td>
<td>75</td>
<td>Neonate, Size 0</td>
</tr>
<tr>
<td>#GL-368-1</td>
<td>92</td>
<td>Infant, Size 1</td>
</tr>
<tr>
<td>#GL-368-2</td>
<td>108</td>
<td>Child, Size 2</td>
</tr>
<tr>
<td>#GL-368-3</td>
<td>124</td>
<td>Medium Adult, Size 3</td>
</tr>
<tr>
<td>#GL-368-3.5</td>
<td>144</td>
<td>Adult, Size 3.5</td>
</tr>
<tr>
<td>#GL-368-4</td>
<td>158</td>
<td>Large Adult, Size 4</td>
</tr>
</tbody>
</table>

## Macintosh, German Profile


<table>
<thead>
<tr>
<th>Blade Code</th>
<th>Length (mm)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#GL-GP-365-1</td>
<td>93</td>
<td>Infant, Size 1</td>
</tr>
<tr>
<td>#GL-GP-365-2</td>
<td>114</td>
<td>Child, Size 2</td>
</tr>
<tr>
<td>#GL-GP-365-3</td>
<td>135</td>
<td>Medium Adult, Size 3</td>
</tr>
<tr>
<td>#GL-GP-365-3-SC</td>
<td>135</td>
<td>Medium Adult, Size 3</td>
</tr>
<tr>
<td>#GL-GP-365-4</td>
<td>155</td>
<td>Large Adult, Size 4</td>
</tr>
<tr>
<td>#GL-GP-365-6</td>
<td></td>
<td>Complete Set</td>
</tr>
</tbody>
</table>

Includes blades Sz 1, 2, 3, 4, std handle, spare bulb, plastic case/foam.
Laryngoscopes

GreenLine Fiber Optic

Macintosh Blades

**Macintosh, English Channel (EC)**

Incorporates a special channel to assist in visualizing the chords and inserting the ET tube.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length (mm)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>2, Child</td>
<td>100</td>
<td>#GL-378-2</td>
</tr>
<tr>
<td>3, Medium Adult</td>
<td>130</td>
<td>#GL-378-3</td>
</tr>
<tr>
<td>3.5, Medium Adult</td>
<td>145</td>
<td>#GL-378-3.5</td>
</tr>
<tr>
<td>4, Adult</td>
<td>155</td>
<td>#GL-381-4</td>
</tr>
</tbody>
</table>

**Macintosh, Reduced Flange (RF, EC)**

Partial flange removal reduces force on the maxillary incisors. Includes special channel to assist in visualizing the chords.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length (mm)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>2, Child</td>
<td>100</td>
<td>#GL-379-2</td>
</tr>
<tr>
<td>3, Medium Adult</td>
<td>130</td>
<td>#GL-379-3</td>
</tr>
<tr>
<td>3.5, Medium Adult</td>
<td>145</td>
<td>#GL-379-3.5</td>
</tr>
<tr>
<td>4, Adult</td>
<td>155</td>
<td>#GL-379-4</td>
</tr>
</tbody>
</table>

**Polio (Size 3, Medium Adult, 133mm)**

A modification of the Macintosh blade offset from the handle at an obtuse angle to allow intubation of patients in respirators (iron lungs), body jackets, and other difficult arrangements.

**Macintosh “Flex-Tip” EC Blade with Articulating Tip**

The versatile Flex-Tip “English Channel” (EC) Macintosh style curved blade is designed for the ultimate in clinician flexibility of use. A lever positioned along the handle (but attached to the blade) controls the flexing motion of the distal tip of the blade. The Flex-Tip blade is ideal for difficult intubations where controlled elevation of the epiglottis is desired with reduced force on the patient. It is extremely useful when encountering displaced larynx, teeth, tongue or mandible as well as with spinal injuries and neck stiffness. Available in three blade sizes.

<table>
<thead>
<tr>
<th>Size</th>
<th>Flex-Tip EC Mac, Blade</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td>#GL-380-2</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>#GL-380-3</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>#GL-380-4</td>
</tr>
<tr>
<td>Complete Set</td>
<td>Blades Size 3, 4, std handle, spare bulb, plastic case/foam</td>
<td>#GL-380-6</td>
</tr>
</tbody>
</table>

**Wisconsin**

A straight spatula and flange that expands slightly toward the distal portion of the blade. This feature increases the visual field and reduces the possibility of trauma during intubation. The distal portion of the blade is wider and formed slightly to the right to better adapt it to lifting the epiglottis.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length (mm)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>2, Child</td>
<td>135</td>
<td>#GL-367-2</td>
</tr>
<tr>
<td>3, Medium Adult</td>
<td>162</td>
<td>#GL-367-3</td>
</tr>
<tr>
<td>4, Large Adult</td>
<td>199</td>
<td>#GL-367-4</td>
</tr>
</tbody>
</table>
Laryngoscopes
GreenLine Fiber Optic
Miller Blades

Miller, English Profile (Standard)
A popular straight blade where the flange is reduced to minimize trauma and the curve at the tip is extended to improve lifting of the epiglottis, facilitating greater exposure of the larynx in difficult cases. The light bundle is on the left side (std) unless indicated.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#GL-366-00</td>
<td>64mm</td>
<td>Premature, Size 00</td>
</tr>
<tr>
<td>#GL-366-0</td>
<td>75mm</td>
<td>Newborn, Size 0</td>
</tr>
<tr>
<td>#GL-366-1</td>
<td>102mm</td>
<td>Infant, Size 1</td>
</tr>
<tr>
<td>#GL-366-1.5</td>
<td>126mm</td>
<td>Pediatric, Size 1.5</td>
</tr>
<tr>
<td>#GL-366-2</td>
<td>155mm</td>
<td>Child, Size 2</td>
</tr>
<tr>
<td>#GL-366-2-BR</td>
<td>155mm</td>
<td>Bundle Right, Size 2</td>
</tr>
<tr>
<td>#GL-366-3</td>
<td>195mm</td>
<td>Medium Adult, Size 3</td>
</tr>
<tr>
<td>#GL-366-3-BR</td>
<td>195mm</td>
<td>Bundle Right, Size 3</td>
</tr>
<tr>
<td>#GL-366-4</td>
<td>205mm</td>
<td>Large Adult, Size 4</td>
</tr>
<tr>
<td>#GL-366-6</td>
<td></td>
<td>Complete Set</td>
</tr>
</tbody>
</table>

Includes blades Size 0, 1, 2, 3, 4, std handle, spare bulb, plastic case/foam.

Miller, German Profile
Similar to English style, but with an integrated fiber optic bundle. Eliminates cracks and crevices that trap debris. Reduces pinch points. Bundle not removable.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#GL-GP-366-00</td>
<td>65mm</td>
<td>Premature, Size 00</td>
</tr>
<tr>
<td>#GL-GP-366-0</td>
<td>77mm</td>
<td>Neonate, Size 0</td>
</tr>
<tr>
<td>#GL-GP-366-1</td>
<td>110mm</td>
<td>Infant, Size 1</td>
</tr>
<tr>
<td>#GL-GP-366-2</td>
<td>152mm</td>
<td>Child, Size 2</td>
</tr>
<tr>
<td>#GL-GP-366-3</td>
<td>192mm</td>
<td>Adult, Size 3</td>
</tr>
<tr>
<td>#GL-GP-366-4</td>
<td>207mm</td>
<td>Adult, Size 4</td>
</tr>
<tr>
<td>#GL-GP-366-6</td>
<td></td>
<td>Complete Set</td>
</tr>
</tbody>
</table>

Includes blades Size 00, 0, 1, 2, 3, std handle, spare bulb, plastic case/foam

Miller Modified
While retaining the extended curved tip to facilitate lifting the epiglottis, this blade has eliminated the flange to allow insertion through a restricted opening and decrease potential for damage to the upper teeth.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#GL-364-0</td>
<td>75mm</td>
<td>Newborn, Size 0</td>
</tr>
<tr>
<td>#GL-364-1</td>
<td>102mm</td>
<td>Infant, Size 1</td>
</tr>
<tr>
<td>#GL-364-2</td>
<td>155mm</td>
<td>Child, Size 2</td>
</tr>
<tr>
<td>#GL-364-3</td>
<td>195mm</td>
<td>Medium Adult, Size 3</td>
</tr>
</tbody>
</table>
Laryngoscopes
GreenLine Fiber Optic

Specialty Blades

Phillips
Integrates the preferred straight Jackson design with the curved distal tip Miller design to provide greater visibility and an almost direct line approach to the trachea during intubation. Unique light bundle mounting provides deep illumination downward and inward, while the low profile flange reduces the risks of oral damage.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>BLade Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 1, Pediatric</td>
<td>113mm</td>
<td>#GL-370-1</td>
</tr>
<tr>
<td>Size 2, Adult</td>
<td>166mm</td>
<td>#GL-370-2</td>
</tr>
</tbody>
</table>

Snow (Size 3, Medium Adult, 162mm)  
A modification that includes the Miller spatula and the Wis-Foregger (Wisconsin modification) flange to reduce trauma during intubation. Especially for use with the Sanders tube. Curving back from the distal end, it provides a convenient visual field.

Whitehead (Size 3, Medium Adult, 162mm)  
A modification of the Wisconsin blade with a reduced flange to increase visualization, facilitate intubation, and reduce the possibility of damage to the incisors.

Blechman (Size 3, Medium Adult, 142mm)  
This modification of the Macintosh blade has the tip angled to further elevate the epiglottis in a short spine patient. The ability to sweep the tongue left, tip the blade upward, and view from the right side, is enhanced due to significant removal of the flange material near the proximal portion of the blade.

Flangless Mac/Bizzarri-Gluffrida
A modification of the Mac. Blade with the upper flange removed. Especially well suited for use in patients with limited mouth opening, prominent incisors, receding mandible, short thick neck or having the larynx in an extreme anterior anatomical position. The absence of the flange greatly reduces the chances of trauma during Laryngoscopy.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>BLade Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 3, Medium Adult</td>
<td>130mm</td>
<td>#GL-374-3</td>
</tr>
<tr>
<td>Size 4, Large Adult</td>
<td>158mm</td>
<td>#GL-374-4</td>
</tr>
</tbody>
</table>

Siker-Mirror (Size 4, Adult, 158mm)  
For patients with anatomical variations which make intubation with standard blades difficult or impossible. Three joined segments (135° angle) with the middle being a stainless steel mirror surface facing the spatula, allows a view of the blade tip area. (Note, Use Caution: The image is inverted in the mirror). Placing the blade in a warming tray prior to use will avoid mirror fogging.

Oxford (Size 1, Infant, 102mm)  
Suitable for premature infants, babies and children up to the age of four. A large overhang on the open side prevents the lips from obscuring vision and the broad, flat lower surface is a help in children with an extreme degree of cleft palate.
Laryngoscopes

GreenLine Fiber Optic

Specialty Blades

#GL-377-1  Soper (Infant, Size 1, 100mm)
This blade combines the “Z” section (outward flange) of the Macintosh design with the straight form of blades common to the orthodox patterns.

Wise-Hipple

For infants and children, it is gently curved over the distal third and designed to lift the epiglottis indirectly (like the Mac). The blade shape permits binocular vision allowing better judgment of depth and less risk of trauma.

#GL-358-1  105mm  Infant, Size 1
#GL-358-2  130mm  Child, Size 2

Seward

Originally produced as an infant blade for use in asphyxia neonatorum, this pattern is now available in two sizes extending its usefulness to older children.

#GL-359-0  94mm  Neonate, Size 0
#GL-359-1  112mm  Infant, Size 1

Robertshaw

A modification of the Wisconsin blade with a straight spatula and a large circular flange, designed primarily for use in infants. The flange tends to be straighter and run parallel to the spatula. The tip or beak of the Wis-Hipple is wider and well adapted for lifting the epiglottis.

#GL-369-00  64mm  Neonate, Size 00
#GL-369-0  80mm  Infant, Size 0
#GL-369-1  102mm  Infant, Size 1
#GL-369-1.5  115mm  Infant, Size 1.5

Miller-Port with O₂/Suction Port

An addition to the Miller blade that allows laryngoscopy and intubation with less risk of hypoxia. A built-in tube permits delivery of oxygen or other gas mixtures. Can also be used as a small diameter suction line.

#GL-361-0  75mm  Newborn, Size 0
#GL-361-1  102mm  Infant, Size 1

GreenLine Accessories

#GL-356-N  Xenon Replacement Lamp
Replacement Xenon lamp for new “Direct Fit” handle contacts.

#GL-356-R  Xenon Replacement Lamp
Replacement #10 Xenon lamp for all “Red Base” handle contacts.

#GL-356  Xenon Replacement Lamp
Replacement 3.5mm Xenon lamp for older “Black Base” handles contacts

#GL-369  Replacement Fiber Optic Bundles
Replacement Fiber Optic bundles are available for all GreenLine blades with removable bundles.
Layngoscope Accessories
GreenLine & Conventional

Howland Lock
The Howland lock provides natural lifting action and simplifies laryngeal exposure, making intubation possible even in the most difficult cases (receding chin, anterior larynx, protruding teeth, “bull neck”, facial confractures, decreased jaw mobility, etc.). Built-in leverage prevents prying and reduces the possibility of broken teeth. Can often make an otherwise certain tracheotomy unnecessary. Adapts to all types of “green coded” laryngoscope handles and blades. Also available for all conventional laryngoscope handles and blades.

GreenLine Fiber Optic
Conventional

Cases, Laryngoscope
Durable and versatile, these cases are designed with foam cutouts to hold four curved blades or 5 straight blades or 2 flex-tip blades, two bulbs, and a handle. Size 2”x9”x10”.

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curved Blade Case</td>
<td>#00-360-C</td>
</tr>
<tr>
<td>Straight Blade Case</td>
<td>#00-360-S</td>
</tr>
<tr>
<td>Flex-Tip Blade Case</td>
<td>#00-360-F</td>
</tr>
<tr>
<td>Straight and Curved Blade Case</td>
<td>#00-360-SC</td>
</tr>
</tbody>
</table>

Macintosh Prisms
The Anesthesia Associates Macintosh Prism is available in three sizes to fit three popular Macintosh Laryngoscope Blades (sizes 2, 3, and 4) working with either Conventional or Fiber Optic styles. Clipped to the vertical wall of the appropriate size Macintosh Blade, this Prism is used when the view of the vocal cords is impaired during nasal intubation, and for post-operative examination of the larynx. It consists of an optically polished Prism (with attachment clip) that provides a refraction of 30° without image inversion.

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prism to fit Mac blade size 2</td>
<td>#00-349-2</td>
</tr>
<tr>
<td>Prism to fit Mac blade size 3</td>
<td>#00-349-3</td>
</tr>
<tr>
<td>Prism to fit Mac blade size 4</td>
<td>#00-349-4</td>
</tr>
<tr>
<td>Prism set (1 each size 2, 3, &amp; 4)</td>
<td>#00-349-5</td>
</tr>
</tbody>
</table>

Conventional Accessories
Replacement Lamps 2.5v

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard (frosted) pkg of 12</td>
<td></td>
</tr>
<tr>
<td>Pre-focused (clear) pkg of 5</td>
<td></td>
</tr>
<tr>
<td>Extra Bright (clear) pkg of 5</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Large</td>
<td>#00-347</td>
</tr>
<tr>
<td></td>
<td>Small</td>
<td>#00-348</td>
</tr>
<tr>
<td>Pre-focused</td>
<td>Large</td>
<td>#00-355</td>
</tr>
<tr>
<td></td>
<td>Small</td>
<td>#00-356</td>
</tr>
<tr>
<td>Extra Bright</td>
<td>Large</td>
<td>#00-355-XB</td>
</tr>
<tr>
<td></td>
<td>Small</td>
<td>#00-356-XB</td>
</tr>
</tbody>
</table>

Superior gas charge in bulb, parabolic reflector (large size), 400% more light output relative to standard.
Conventional Laryngoscopes

Handles

A complete range of conventional (bulb in blade) laryngoscope handles expertly fabricated from brass, polished, and durably plated with chrome. Handles are available in a variety of sizes and configurations to assist in both routine and difficult intubations.

#00-350  **Standard (29mm x 140mm)**

#00-354  **Penlite (19mm x 140mm)**
Slender profile. Requires two “AA” size batteries (#P-154-AA).

#00-336  **Pediatric (16mm x 100mm)**
Tiny and short. Requires two “N” size batteries (#P-154-N).

#00-341  **Large (38mm x 170mm)**
Large and stout. Requires two “D” size batteries (#P-154-D).

#00-342  **Bantam (32mm x 100mm)**
Shorter and lighter than the Standard. The Bantam handle is designed to accommodate the difficult intubation on a short neck, barrel-chested or large bosomed individual where the distance between the mouth and the chest prohibits the use of a standard length handle. The size is such that it accommodates the normal sized hand and can be used on a routine basis by most people. Requires two "AA" size batteries (#P-154-AA).

#00-340  **Adjustable (32mm x 130mm) (Patil-Syracuse)**
Similar in size and weight to the Standard, yet readily allows the blade to be firmly locked at four different angles for a variety of special uses:
- 45° - Howland Lock position, natural lift for bull-neck, anterior larynx
- 90° - Standard position, identical to a Standard handle
- 135° - Polio blade position, clears obstructions, extra room
- 180° - Parallel to handle, for obese, halo-traction, or cervical fractures
Requires two “AA” size batteries (#P-154-AA).

Conventional Blade/Handle Repair Parts

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#00-368</td>
<td>Large</td>
<td>Blade rewire kit w/bulb, present AincA and similar</td>
</tr>
<tr>
<td>#00-369</td>
<td>Small</td>
<td>Blade rewire kit w/bulb, Penlon style</td>
</tr>
<tr>
<td>#00-362</td>
<td>Large</td>
<td>Blade rewire kit w/bulb, old style AincA</td>
</tr>
<tr>
<td>#00-363</td>
<td>Small</td>
<td>Handle contact assembly, 3/4” length</td>
</tr>
<tr>
<td>#00-338</td>
<td>Large</td>
<td>Handle pivot pin, screw type</td>
</tr>
<tr>
<td>#00-339</td>
<td>Small</td>
<td></td>
</tr>
</tbody>
</table>
Conventional Laryngoscopes

Blades
A complete line of conventional (bulb in blade) laryngoscope blades fabricated from high quality stainless steel with fine craftsmanship. Blades are available in both American and English Profiles in a wide range of sizes and special configurations.

Macintosh, English Standard (Curved)
The original English profile with a soft, gentle curvature and a flange starting at the base of the blade and continuing to the tip as it narrows. The left-hand version is invaluable in cases with irregular dentition or a left-handed practitioner.

Size 0 80mm  #00-365-0
Size 1 92mm  #00-365-1
Size 2 100mm #00-365-2
Size 3 103mm #00-365-3
Size 3 Left-Handed 130mm #00-365-3L
Size 4 155mm #00-365-4
Complete Setincludes blades Size 1, 2, 3, 4, std handle, 2 spare bulbs, plastic case/foam.

Macintosh American Profile (Curved)
The American profile has a slightly more abrupt curvature and a flange that terminates prior to the tip of the blade.

Size 0 80mm  #AP-368-0
Size 1 92mm  #AP-368-1
Size 2 100mm #AP-368-2
Size 3 130mm #AP-368-3
Size 3.5 144mm #AP-368-3.5
Size 4 155mm #AP-368-4
Complete Set#AP-368-6
Includes blades Size 1, 2, 3, 4, std handle, 2 spare bulbs, plastic case/foam.

Macintosh English Channel (EC) - English Profile
Incorporates a special channel to assist visualizing the chords and inserting the ET tube. Includes "Extra Bright" (XB) bulbs.

Size 2 100mm  #AP-378-2
Size 3 130mm #AP-378-3
Size 3.5 144mm #AP-378-3.5
Size 4 156mm #AP-378-4

Macintosh English Channel (EC) - American Profile
Incorporates a special channel to assist visualizing the chords and inserting the ET tube. Includes "Extra Bright" (XB) bulbs.

Size 2 100mm  #AP-381-2
Size 3 130mm #AP-381-3
Size 3.5 144mm #AP-381-3.5
Size 4 156mm #AP-381-4
Conventional Laryngoscopes

Macintosh Reduced Flange (RF, EC) - English Profile
Partial flange removal reduces force on the maxillary incisors and special channel assists in visualizing the chords. Includes “Extra Bright” (XB) bulb.

- #AP-379-2 100mm Size 2
- #AP-379-3 130mm Size 3
- #AP-379-3.5 144mm Size 3.5
- #AP-379-4 155mm Size 4

Macintosh “Flex-Tip” EC Blade with Articulating Tip
The versatile Flex-Tip “English Channel” (EC) Macintosh style curved blade is designed for the ultimate in clinician flexibility of use. A lever positioned along the handle (but attached to the blade) controls the flexing motion of the distal tip of the blade. The Flex-Tip blade is ideal for difficult intubations where controlled elevation of the epiglottis is desired with reduced force on the patient. It is extremely useful when encountering displaced larynx, teeth, tongue or mandible as well as with spinal injuries and neck stiffness. Available in three blade sizes with “extra bright”(XB) bulbs

- #AP-380-2 Flex-Tip EC Mac conventional blade Size 2
- #AP-380-3 Flex-Tip EC Mac conventional blade Size 3
- #AP-380-4 Flex-Tip EC Mac conventional blade Size 4
- #AP-380-6 Complete Set
  Includes blades Size 3, 4, std handle, spare bulb, plastic case/foam

Miller English Profile (Standard)
A popular straight blade where the flange is reduced to minimize trauma and the curve at the tip is extended to improve lifting of the epiglottis, facilitating greater exposure of the larynx in difficult cases.

- #00-366-0 75mm Newborn, Size 0
- #00-366-1 102mm Infant, Size 1
- #00-366-2 153mm Med. Adult, Size 2
- #00-366-3 195mm Child, Size 3
- #00-366-4 205mm Large Adult, Size 4
- #00-366-6 — Complete Set
  Includes blades Size 0, 1, 2, 3, 4, std handle, spare bulb, plastic case/foam.

Miller American Profile
Similar to the English profile but includes polished surfaces and certain tip “covers”.

- #AP-366-00 65mm Premature, Size 00
- #AP-366-0 75mm Newborn, Size 0
- #AP-366-1 102mm Infant, Size 1
- #AP-366-1.5 126mm Pediatric, Size 1.5
- #AP-366-2 153mm (BR) Child, Size 2
- #AP-366-3 195mm (BR) Med. Adult, Size 3
- #AP-366-4 205mm (BR) Large Adult, Size 4
- #AP-366-6 — Complete Set
  Includes blades Size 0, 1, 2, 3, 4, std handle, spare bulb, plastic case/foam.
Conventional Laryngoscopes

Miller, Modified (Upper Flange Removed)
While retaining the extended curved tip to facilitate lifting the epiglottis, this blade has the flange removed to allow insertion through a restricted opening and decrease potential for damage to the upper teeth.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0, Newborn</td>
<td>75mm</td>
<td>#00-364-0</td>
</tr>
<tr>
<td>1, Infant</td>
<td>102mm</td>
<td>#00-364-1</td>
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<tr>
<td>2, Child</td>
<td>155mm</td>
<td>#00-364-2</td>
</tr>
<tr>
<td>3, Med. Adult</td>
<td>195mm</td>
<td>#00-364-3</td>
</tr>
<tr>
<td>4, Large Adult</td>
<td>205mm</td>
<td>#00-364-4</td>
</tr>
</tbody>
</table>

Miller-Port with O₂/Suction Port
An addition to the Miller blade that allows laryngoscopy and intubation with less risk of hypoxia. A built-in tube permits delivery of oxygen or other gas mixtures. Can also be used as a small diameter suction line.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0, Newborn</td>
<td>75mm</td>
<td>#00-361-0</td>
</tr>
<tr>
<td>1, Infant</td>
<td>102mm</td>
<td>#00-361-1</td>
</tr>
</tbody>
</table>

Phillips
Integrates the preferred straight Jackson design with the curved distal tip Miller design to provide greater visibility and an almost direct line approach to the trachea during intubation. Unique light bundle mounting provides deep illumination downward and inward, while the low profile flange reduces the risks of oral damage.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pediatric, Size 1</td>
<td>113mm</td>
<td>#AP-370-1</td>
</tr>
<tr>
<td>Adult, Size 2</td>
<td>166mm</td>
<td>#AP-370-2</td>
</tr>
</tbody>
</table>

Robertshaw
For infants and children, it is gently curved over the distal third and designed to lift the epiglottis indirectly (like the Mac). The blade shape permits binocular vision allowing better judgment of depth and less risk of trauma.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0, Neonate</td>
<td>94mm</td>
<td>#00-359-1-S</td>
</tr>
<tr>
<td>1, Infant</td>
<td>112mm</td>
<td>#00-359-2-S</td>
</tr>
</tbody>
</table>

Seward
Originally produced as an infant blade for use in asphyxia neonatorum, this pattern is now available in two sizes extending its usefulness to older children.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, Infant</td>
<td>105mm</td>
<td>#00-358-1-S</td>
</tr>
<tr>
<td>2, Child</td>
<td>130mm</td>
<td>#00-358-2-S</td>
</tr>
</tbody>
</table>

Snow (Size 3, Medium Adult, 162mm)
A modification that includes the Miller spatula and the Wis-foregger (Wisconsin modification) flange to reduce trauma during intubation. Especially for use with the Sanders tube. Curving back from the distal end, it provides a convenient visual field.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>#AP-372-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Conventional Laryngoscopes

Wis-Hipple

A modification of the Wisconsin blade with a straight spatula and a large circular flange, designed primarily for use in infants. The flange tends to be straighter and run parallel to the spatula. The tip or beak of the Wis-Hipple is wider and well adapted to lifting the epiglottis.

- **#AP-369-00** 64mm Neonate, Size 00
- **#AP-369-0** 80mm Infant, Size 0
- **#AP-369-1** 102mm Infant, Size 1
- **#AP-369-1.5** 115mm Infant, Size 1.5

Wisconsin Profile

The Wisconsin blade has a straight spatula and flange that expands slightly toward the distal portion of the blade. This feature increases the visual field and reduces the possibility of trauma during intubation. The distal portion of the blade is wider and formed slightly to the right to better adapt it to lifting the epiglottis.

- **#AP-367-2** 135mm Child, Size 2
- **#AP-367-3** 162mm Med. Adult, Size 3
- **#AP-367-4** 199mm Large Adult, Size 4

- **#AP-373-3** (Size 3, Medium Adult, 162mm) Whitehead

A modification of the Wisconsin blade with a reduced flange to increase visualization, facilitate intubation, and reduce the possibility of damage to the incisors.

- **#AP-371-4** (Size 4, Adult, 158mm) Siker-Mirror

For patients with anatomical variations which make intubation with standard blades difficult or impossible. Three joined segments (135° angle) with the middle being a stainless steel mirror surface facing the spatula, allows a view of the blade tip area. (Note, Use Caution: The image is inverted in the mirror). Placing the blade in a warming tray prior to use will avoid mirror fogging.

- **#00-357-S** (Size 1, Infant, 102mm) Oxford

Suitable for premature infants, babies and children up to the age of four. A large overhang on the open side prevents the lips from obscuring vision and the broad, flat lower surface is a help in children with an extreme degree of cleft palate.
Conventional Laryngoscopes

Flange-Less Mac Bizzarri-Gluffrida
A modification of the Macintosh blade with the upper flange removed. This blade is especially well suited for use in patients with a limited mouth opening, prominent incisors, receding mandible, short thick neck or having the larynx in an extreme anterior anatomic position. The absence of the flange greatly reduces the chances of trauma during laryngoscopy.

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, Medium Adult</td>
<td>130mm</td>
<td>AP-374-3</td>
</tr>
<tr>
<td>4, Adult</td>
<td>158mm</td>
<td>AP-374-4</td>
</tr>
</tbody>
</table>

Polio (Size 3, Medium Adult, 133mm) #AP-375-3
A modification of the Macintosh blade offset from the handle at an obtuse angle to allow intubation of patients in respirators (iron lungs), body jackets, and other difficult arrangements. English profile.

Blechman (Size 3, Medium Adult, 142mm) #AP-376-3
This modification of the Macintosh blade has the tip angled to further elevate the epiglottis in a short spine patient. The ability to sweep the tongue left, tip the blade upward, and view from the right side, is enhanced due to significant removal of the flange material near the proximal portion of the blade.

Soper (Size 1, Infant, 100mm) #AP-377-1
This blade combines the “Z” section (outward flange) of the Macintosh design with the straight form of blades common to the orthodox patterns.

Laryngoscope Repair

Both handles and blades from either fiber optic or conventional type laryngoscope systems can be repaired at Anesthesia Associates, Inc. facility. Whether these products are AincA products or not, repairs are performed on a quick turn-around basis and at a reasonable cost. Contact customer service for details.
Respirometer and Peak Flow Meter Repair Program

Anesthesia Associates Inc. (AincA) is designated as a:

- Factory authorized repair center for Wright Respirometers and Wright Peak Flow Meters.
- ALL Repairs are performed under the supervision of a technician, factory trained by the manufacturer in Great Britain.
- Each unit is tested and calibrated throughout its full range of performance on special test and calibration equipment to manufacturer’s specification on manufacturer furnished equipment. Certificates of Calibration are provided with each unit repaired upon request.

The Wright Respirometer Repair Program:

- Authentic spare parts purchased directly from the manufacturer in Great Britain.
- Speedy service – normal repairs usually take only 10 days from receipt.
- “Flat-Rate” Repair Program assures predictable prices*

This program applies to the Wright Peak Flow Meter and the following Wright Respirometers: Haloscale compact, Haloscale standard, Haloscale Infanta, Mark 8, Mark 12, Mark 14, Mark 20, Mark 25, Mark 30 and Physiological Units.

*Exclusions: (Note: Excluded units require an Estimate for Repair)
- Units that have exceeded their useful life or suffered excessive damage.
- Units that have internal corrosion (rust).
- Units that are not basically intact when received.
- Units that require replacement of the outer case.
- Accessory cases, liners, adapters and harnesses.
- Units Manufactured by Fraser Harlake, Ohmeda or other “non-Wright” types.

Other Details:

- Units that require an Estimate for Repair will incur an Estimate Fee, unless repaired. Units will be disassembled to generate the Estimate, and will be reassembled only during the repair process.
- All units submitted for repair are to be accompanied with a valid Purchase Order Number, a Contact Name and Phone Number, Organization Name and Address, and a Return Shipment Name and Address.
- Units are shipped F.O.B. repair center (San Marcos, CA, USA).
Terms and Conditions

**Prices:** Subject to change without notice (see separate price list currently in effect).

**Terms:** Net 30 days.
Service charge of 1½% per month on all balances which are 30 days past due.

**Minimum:** Minimum invoice amount applies to each order. Call for details.
Indicate Anesthesia Associates product catalog number on your purchase order.

**Shipping Point:** All merchandise is sold F.O.B. San Marcos, California.
Under the terms of F.O.B. San Marcos, California, all goods become the property of the customer upon transfer to freight carrier. The customer is responsible for movement of goods and transportation costs, and any loss and/or damage which is incurred after goods have been released from point of departure. Anesthesia Associates will assist in the event of loss or damage to merchandise and if a subsequent claim is necessary against the carrier, but the responsibility for reporting such loss or damage and filing any claims remains with the customer.

Air and truck shipments are on a collect freight charge basis (unless otherwise requested).

UPS, FedEx, Parcel Post, or any special shipments are prepaid and are added to invoice billing.

**Merchandise Returns:** Merchandise may not be returned or will not be accepted for credit or exchange without prior authorization and a Anesthesia Associates returned goods authorization number.

In requesting authorization for return, provide your purchase order number, Anesthesia Associates’ invoice number and reason for return.

All returns are subject to 25% restocking charge unless due to defect, in which case the merchandise will be replaced or repaired.

Shipping charges must be prepaid on all returns.

The following list of merchandise is not eligible for return unless proven defective:

1. Specially ordered or produced items.
2. Sterile or rubber goods.
3. Used merchandise or products not in original shipping containers.
4. Merchandise held over thirty (30) days from shipment.
5. Merchandise which has been altered or abused in any way.

**Repair Estimates:** Requests for estimates on Respirometer repairs or any other item which requires disassembly in order to diagnose the required parts and labor for repairs, will be charged a repair estimate. Call for details.

Product Warranty

**Warranty Limitation of Liability.** For a period of one (1) year from the date of shipment of Seller’s products hereunder, Seller warrants that, except for rubber, plastic, or other similar materials, at the time of shipment the products conform to the description on the face of the shipper. **SELLER MAKES NO OTHER WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, IN FACT OR BY LAW, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** The liability for products covered by this warranty is limited solely to replacing, repairing, or issuing credit for, at the discretion of Seller, the parts that are found during the warranty period to have been damaged or defective upon shipment, provided that Seller will not be liable under this warranty unless (I) Seller is promptly notified in writing by Buyer upon discovery of such damage or defect; (ii) the defective unit or part is returned to Seller, transportation charges prepaid by Buyer; (iii) the defective unit or part is received by Seller for adjustment no later than four weeks following the last day of warranty period; and (iv) Seller’s examination of such unit or part shall disclose, to its satisfaction, that such defects or failures have not been caused by misuse, neglect, improper installation, unauthorized repair or alteration or accident. If the equipment manufactured by Seller consists primarily of parts manufactured by others, Seller will only make available for the Buyer’s benefit those warranties which Seller has received from third party manufacturers. Any authorization of Seller for repair or alteration by the Buyer must be in writing to prevent voiding this warranty.

**SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, NOR SHALL BE LIABLE FOR DAMAGES OF ANY KIND ARISING FROM THE PRESENCE OR USE OF ANY OF SELLER’S PRODUCTS, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER PRODUCTS OR SUBSTANCES.** Determination of the suitability of any of Seller’s products furnished hereunder for the use contemplated by Buyer is the sole responsibility of Buyer and Seller shall have no responsibility in connection therewith. Buyer assumes all risk and liability for loss, damage or injury to persons or property of Buyer or others arising out of the use or possession of Seller’s products. The warranty as hereinabove set forth shall not be enlarged, diminished or affected by, and no obligation or liability shall arise to grow out of, the renderings of technical advice or service in connection with Buyer’s order or the products furnished hereunder.

**REPAIR WARRANTY:** Customers can submit certain products to Anesthesia Associates for repair regardless of the seller. Anesthesia Associates warrants for 90 days from the date of shipment of the repaired item that repairs performed are sufficient and adequate to allow normal use of the product. Anesthesia Associates must be notified of repair failures within the 90 day period, and is not responsible for failures caused by misuse, neglect, improper installation, unauthorized repair or alteration, accident, or failure of parts outside those repaired.