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DEDICATED TO: ROBERT L. LEE, B.S., M.S., D.D.S.

Dr. Lee earned a BA degree in Biology from Walla Walla College in 1950 and an MS degree in Bacteriology and Public Health from Washington State University in 1953. He was a Research Specialist in the Army Chemical Corp 1953-55 and graduated from Loma Linda University with a DDS degree in 1959. He maintained an occlusion/esthetic oriented private practice in Grand Terrace, California for over 37 years.

After graduating from dental school, he began research on mandibular movements and published his results in 1969 in the Journal of Prosthetic Dentistry. In 1974 he founded Panadent Corporation and designed instruments and methods for dentists diagnose and prepare treatment plans for their patients. He founded Occlusion Seminars in 1978 which was later renamed The Lee Institute for Orofacial Dentognathic Bioesthetics, a continuing education program for dentists, laboratory technicians and auxiliaries. Under the direct supervision of Dr. Lee, a continuing education program was organized in 1994 to continue teaching his concepts.

“Orognathic Bioesthetics International Inc.”
For information call: (800) 438 6441 or
E-Mail: obi@bioesthetics.com

He coined the word:

“Bioesthetics”
"the study or theory of the beauty of living things in their natural forms and functions”. R.L. LEE, MS., D.D.S.

He was best known for his love of nature, and passion for people which manifested itself in his mastery and finesse as a dentist. His persistent quest for excellence, and tireless pursuit of knowledge in understanding the natural genetic forms and functions of the orofacial dentognathic system led to his concept of Bioesthetic Dentistry. He was a powerful inspiration and noted humanitarian; his wisdom, enthusiasm, humor and friendly smile is dearly remembered with admiration and fondness by many people all over the world.

Mission:
Panadent is dedicated to designing and manufacturing quality innovative products and providing exceptional customer service to the dental profession for over 30 years.

ISO 9001 Certification with CE Mark

Panadent has ISO9001/CE Mark Certification. ISO is an International Standardization Organization that monitors our systems implemented for assuring quality control. The certifications signify that Panadent has met a detailed set of requirements set by the Medical Device Directive and allows for the sale into international communities.*
## EDUCATIONAL MATERIALS

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>BDVS-12</td>
<td>BioEsthetic Dentistry Video Series</td>
</tr>
<tr>
<td>BDDVD-6</td>
<td>BioEsthetic Dentistry DVD Series</td>
</tr>
</tbody>
</table>

This Lecture is presented by Dr. Robert Lee on BioEsthetic Dentistry. In this series he covers topics like: Relationship of Form to Function, Smile Symmetry and Balance, Esthetic Plane vs. Functional Plane, Observations of Long Lasting, "Trouble-Free" Dentitions, etc. The series consists of 12 – one hour VHS video tapes, or 6 – 2 hour DVD's. Both are accredited for CDA continuing education units.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>2605 EM</td>
<td>Bio-Esthetic Study Models (Cassie w/mountingadapter)</td>
</tr>
<tr>
<td>2625 EM</td>
<td>Bio-Esthetic Study Models (Cassie w/mountingadapter)</td>
</tr>
</tbody>
</table>

Designed to reflect his concept of ideal genetic tooth forms. The study models are based on Dr. Lee's observations of long lasting "trouble free" natural dentition and were waxed and carved by Dr. Lee's long time technician, Mick Illich. Molded in durable white resin, they are ideal occlusal treatment guides for dentists, orthodontists, laboratory technicians and dental students as well as for patient education.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>5954 EM</td>
<td>The Function of Teeth</td>
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The "Functions of Teeth" covers Dr. Lunceen's and Dr. Gibbs's research on bite force and Jaw movements and correlates their research with Dr. Lee's research of jaw movements and how these movements relate to articulators.

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<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>5952 EM</td>
<td>Introduction to Occlusal Anatomy</td>
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The "Introduction to Occlusal Anatomy" waxing manual will help develop an understanding of why the occlusal surfaces of the teeth have certain shapes by relating opposing teeth to each other.

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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>5953 EM</td>
<td>Fundamentals of Esthetics</td>
</tr>
</tbody>
</table>

(Quintessence Publication, Dr. Claude Rufenacht, author)

Dr. Lee's chapter "Esthetics and Its Relationship to Function" explains his concepts of Bioesthetic Dentistry (Form and Function). With over 72 pages and 183 color illustrations, Dr. Lee's chapter occupies about 20% of the book.

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>5401 EM</td>
<td>Basic Articulator Module Procedure Manual</td>
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The Basic manual contains 250 step by step line drawings of the face-bow procedures, interocclusal records, and mounting procedures as well as a parts appendix.

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<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>5403 EM</td>
<td>Advanced Articulator Module Procedure Manual</td>
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The advanced manual includes 350 step by step line drawings of the Axi-Path recording procedure, mounting on the true axis, how to select the appropriate preformed Bennett guides.

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<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>5053 EM</td>
<td>Basic Instruction Video (Articulator System)</td>
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This video tape covers the basic module procedures. Dr. Lee demonstrates face-bow transfer, centric and protrusive interocclusal records, mounting casts on the articulator as well as adjusting the articulator. Video is approximately 1 hour.
DENTAL PRODUCTS

3001 DP  ProxiFit™ Module
The ProxiFit™ module simplifies and improves interproximal contact adjusting of crowns, onlays, inlays and veneers by showing exactly where and how much to adjust. The unique Ribbon Gripping Forceps (RGF) holds pre-cut, individual mylar test ribbons at 90° to interproximal embrasures. The test ribbons are ultra thin (.0007") and coated on both sides with either black or red marking dye to provide unsurpassed precision in marking interproximal contacts.

3050 DP  ProxiFit™ Test Ribbons (2 Pkg. Black)
3055 DP  ProxiFit™ Test Ribbons (2 Pkg. Red)
3060 DP  ProxiFit™ Test Ribbons (1 Pkg. ea.)
Each box contains 120 pre-cut, protected, double-sided black or red test ribbons that are .0007 inch thickness (17 microns). These sanitary, convenient marking ribbons are used with the Proxi-Fit forceps to accurately mark heavy interproximal contacts of restorations being placed.

4405 DP  Bite-Tab™ Compound Disks (180)
Bite-Tabs are constructed from red impression compound deposited on self adhesive strips. Bite-Tabs can be used with most brands of bite forks. Remove Bite-Tab by adhesive strip and place on bite fork. Temper compound in hot tap water before indexing on patients teeth. To remove used tab, dip in hot water and simply peel adhesive strip off of bite fork.

7172 DP  Bite-Tray™ Registration Plates (20)
7175 DP  Bite-Tray™ Registration Plates (50)
Bite-Trays are made of soft aluminum and are designed for accurate jaw position interocclusal records. Excellent for taking centric, protrusive and lateral border records. Although a ZOE paste is recommended, the trays can be used with any bite registration material desired.

9390 DP  Leaf Gauge (numbered)
This leaf gauge is made of polyester strips and are numbered (1-56) in 1/10th mm increments for convenience. They are used as an anterior deprogrammer for taking centric records and can also be used in equilibration or coronoplasty procedures.

9391 DP  Multi-Measuring Ruler
The MMR is used for measuring tooth lengths, tooth widths, vertical overbite, horizontal overjet, as well as a range of motion scales.
The **Golden Ruler** measuring device is designed to help determine orofacial dimensions, such as vertical dimensions, incisor height, and tooth width. It is calibrated to correspond to the "Golden Proportion" principle (1:1.618) and is said to be useful for achieving esthetic results.

**9396 DP  Golden Section Divider & Grids Kit**
The Golden Section Divider measuring device is designed to help determine orofacial dimensions, such as vertical dimensions, incisor height, and tooth width. It is calibrated to correspond to the "Golden Proportion" principle (1:1.618) and is said to be useful for achieving esthetic results.

This kit also includes a manual and set of 6 golden section disposable paper grids pads, with approximately 30 sheets per pad.

**4340 DP  Golden Section Grids** (1 pad of each 6 sizes)
**4341 DP  Golden Section Grids** (6 pads of 7.0mm)
**4342 DP  Golden Section Grids** (6 pads of 7.5mm)
**4343 DP  Golden Section Grids** (6 pads of 8.0mm)
**4344 DP  Golden Section Grids** (6 pads of 8.5mm)
**4345 DP  Golden Section Grids** (6 pads of 9.0mm)
**4346 DP  Golden Section Grids** (6 pads of 9.5mm)

**4330 DP  Golden Proportion Waxing Guides** (set of 7)
The Golden Proportion Waxing Guides can be used with the Kois Adjustable Platform or by themselves to facilitate incorporating the golden proportion ratios of tooth widths into anterior restorations.
MODULAR ARTICULATOR SYSTEM

1210 AS Basic Module
Includes:
- 1701 AR PCH Articulator (1.5mm analogs)
- 2094 AA Articulator Support Legs (set)
- 4000 FB Pana-Mount Face-bow
- 4070 FB Bio-Esthetic Level Gauge
- 8210 AA Molded Plastic Case
- 2280 ME Mandibular Mounting Stand
- 2850 MP Magna-Split II System
- 7172 DP Bite-Tray Registration Plates (20)
- 4405 DP Bite-Tab Compound Discs (180 Disks)
- 5401 EM Basic Instruction Manual
- 9850 MP Pana-Lube Silicone Spray

1211 AS Basic Module
Includes:
- 1801 AR PSH Articulator (1.5mm analogs)
- 2094 AA Articulator Support Legs (set)
- 4000 FB Pana-Mount Face-bow
- 4070 FB Bio-Esthetic Level Gauge
- 8210 AA Molded Plastic Case
- 2280 ME Mandibular Mounting Stand
- 2850 MP Magna-Split II System
- 7172 DP Bite-Tray Registration Plates (20)
- 4405 DP Bite-Tab Compound Discs (180 Disks)
- 5401 EM Basic Instruction Manual
- 9850 MP Pana-Lube Silicone Spray

The basic module includes all of the essential items needed to mount casts in centric relation and set the protrusive condylar analog guide with a unique intraoral 'check bite' jaw positional record. The molded plastic case holds the articulator, face-bow and accessories plus room for mounted casts. The basic module routinely comes with 1.5mm Bennett analogs. The module comes with magnetic mounting plate system.
The Advanced Module includes all items in the Basic Module, as well as the Axi-Path III Recorder and Axis Mounting System. The Axi-Path III Recorder provides the means to quickly and accurately record a patient's mandibular movements on the transverse (hinge) axis. The Axis Mounting System is used for true hinge axis transfer mounting as well as arbitrary face-bow mountings. Also included is the full set of motion analogs (0.5, 1.0, 1.5, 2.0, 2.5mm).
**MODULAR ARTICULATOR SYSTEM**

**PANADENT ARTICULATOR ADVANTAGES**

1. Articulators that meet the requirements of both removable and fixed prosthodontics as well as orthodontics, general dentistry, and now esthetic dentistry.

2. Reproduction of all major mandibular movements with three dimensional curved condylar path analogs of motion that include curved path Bennett, lateral border and protrusive pathways.


4. A unique Dyna-Link system for keeping upper and lower articulator frames joined together during eccentric movements.

5. Arcon type articulators that opens 180° for laboratory waxing and restoration fabrication.

6. Interchangeability of mounted casts from one Panadent "P" series articulator to any other Panadent "P" series articulator.

7. A positive centric latch that locks the articulator upper frame to the lower frame for precise centric axis motion.

8. A full selection of preformed, statistically selected, three dimensional (6 degrees of freedom) curved path motion analog guides derived from actual mandibular movements.

9. Scientifically determined fixed condylar axis elements rather than adjustable "intercondylar" distance.

10. Articulators that can be adjusted using the Panadent Axi-Path recorder or interocclusal "check-bite" records.

11. Articulators designed for use with both true hinge axis and arbitrary axis face-bows.

12. A special fixture which allows cast mounting on the articulator without attaching the face-bow to the articulator.

13. An arbitrary axis (ear) face-bow which also allows for transferring and mounting to the true hinge axis.

14. A heavy gauge molded plastic case to protect the articulator as well as to carry the face-bow, mounting equipment, analogs and instruction manual plus additional space for study casts and other items.

15. Axi-Path III Recorder that features both EZ-Find (Macro adjustment) and Lead Screw (Micro Adjustment) Deluxe Side Arms.

16. Axis Mounting System that includes a maxillary articulator frame which allows for arbitrary (ear bow) as well as true hinge axis mountings with a built in remount jig.

FOR FURTHER INFORMATION, PLEASE CALL (800) 368-9777 (U.S. & CANADA)

TEL: (909) 783-1841 • FAX: (909) 783-1896 • E-MAIL: info@panadent.com • www.panadent.com
ARTICULATORS

1701 AR  Model PCH Articulator (w/ 1 pr. analogs)
1610 AR  Magnetic Model PCH Articulator (w/ 1 pr. analogs)

The model PCH articulator is a precision articulator which allows the transfer of dental casts from one PCH or PSH articulator to another. The model PCH has a curved incisal pin calibrated in degrees. The curved pin holder allows the tip of the pin to stay in the same location on the incisal table when the vertical dimension is changed on the articulator. The positive centric latch depresses the centric pin to keep the articulator in perfect centric relation for mounting procedures or the pin can be depressed by hand to verify the centric position. The unique Dyna-Links keep the upper and lower frames joined together during excursive movements.

1801 AR  Model PSH Articulator (w/ 1 pr. analogs)
1620 AR  Magnetic Model PSH Articulator (w/ 1 pr. analogs)

The model PSH articulator is a precision articulator which allows the transfer of dental casts from one PSH or PCH articulator to another. The model PSH comes with a straight incisal pin calibrated in millimeters and will change positions on the incisal table when the vertical dimension is changed on the articulator. The positive centric latch depresses the centric pin to keep the articulator in perfect centric relation for mounting procedures or the pin can be depressed by hand to verify the centric position. The unique Dyna-Links keep the upper and lower frames together during excursive movements.

1901 AR  Model SH Articulator (w/ 1 pr. analogs)
1630 AR  Magnetic Model SH Articulator (w/ 1 pr. analogs)

The model SH articulator is a non-precision articulator which does not allow the transfer of dental casts from one articulator to another. The model SH comes with a straight incisal pin which will change positions on the incisal table when the vertical dimension is changed on the articulator. The positive centric latch depresses the centric pin to keep the articulator in centric for mounting procedures or the pin can be depressed by hand to verify the centric position. The unique Dyna-Links keep the upper and lower frames together during excursive movements.
The PAL™ Plastic Articulator Lite is the first "Intermediate Articulator" that creates a functional link between disposable and semi-adjustable articulators. This Semi-Disposable Mini Articulator is an easy, lightweight and inexpensive alternative to multiple articulators. No super glue or molds required!

**PAL™ PLASTIC ARTICULATOR LITE**

The PAL™ articulator has an anatomically correct axis of rotation; the same as the full size Panadent articulator. Features include vertical and horizontal alignment guides as well as a built in, tilt back support stand. Mount cast on full-size articulator using Pana-Mount™ face bow or Kois Dento-Facial Analyzer™. Detach casts from articulator and clip the PAL™ into the receiving ports into the back of the Magna-Slit™ mounting plates. After lab procedures are completed, the PAL™ can be detached from the mounting plates and the study casts can be placed back on the full-size articulator for quality control and final adjustments using the guidance of the curvilinear analogs of motion.

1. Mount study casts to magnetic mounting plates on the full size (model PCH, PSH) Panadent articulator using the new Kois Dento-Facial Analyzer or the traditional Pana-Mount Face Bow and an interocclusal record.

2. Remove study casts attached to the Magnetic mounting Plate from the full size Panadent articulator. Clip in the new Panadent PAL articulator into the receiving port located in the back of the plastic Magnetic Index Plate.

3. The Pal can be removed so that the study casts can be placed back on the full size Panadent articulator to perform any final adjustments required from the guidance of the curvilinear analogs of motion to quality control of the restorations.
ARTICULATOR ACCESSORIES

2105 AA  0.5 mm Motion Analogs (right and left)
2110 AA  1.0 mm Motion Analogs (right and left)
2115 AA  1.5 mm Motion Analogs (right and left)
2120 AA  2.0 mm Motion Analogs (right and left)
2125 AA  2.5 mm Motion Analogs (right and left)

Available in sizes from 0.5mm to 2.5mm, in .5mm increments, the Motion Analogs represent all of the pathways including the border paths of the condyles in the fossa. To ensure accuracy, these blocks are created by precision molding and then machined to .005 tolerances. The analog blocks may be "mixed" on the articulator to represent the different right and left sides of a patient if needed.

A schematic of the Motion Analogs show the variations in the curved Bennett pathways, in the functional range of 3mm from centric relation. Also note that the condyles are coming down the protrusive pathway in the sagittal plane at the same time they go around the curved Bennett pathway in the transverse plane. The orbiting pathways, beyond the 3mm lateral point, are all 6 degrees. The Motion Analogs have been created with the 3/4 inch radius superior wall which allows them to be rotated to duplicate the patient's protrusive and lateral pathways.

Distribution of Bennett Movement

<table>
<thead>
<tr>
<th>millimeters per side</th>
<th>.25</th>
<th>.5</th>
<th>1</th>
<th>1.5</th>
<th>2</th>
<th>2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent (%) of Patients</td>
<td>52</td>
<td>21</td>
<td>8</td>
<td>2</td>
<td></td>
<td></td>
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</tbody>
</table>

* R & L border movements measured on the non-working side 3mm forward on the vertical and horizontal planes from centric relation.

Distribution chart for 440 lateral movements recorded with the Lee research pantograph.
ARTICULATOR ACCESSORIES

2370 AA  Condyle Positioners (set)
The Condyle Positioners are used in the fabrication of repositioning splints or to simulate model surgery. They are put in place of the motion analogs and have both vertical and horizontal adjustment screws as well as a lateral adjustment feature. One revolution of the screws equal 1mm so that precision adjustments can be made. There are also 1mm lines on the axis shaft for the lateral adjustment.

2170 AA  Axis Position Indicator System (API)
The Axis Position Indicator System is used to track the condyles to a stable position during splint therapy and for determining CR/CO discrepancies (slide vs. fulcrum).
Includes:
left and right vertical graph supports, horizontal graph support, API thumb screws and 20 graph papers.

9611 AA  API Graph Papers (set of 20)
The API Graph Papers are used with the Axis Position Indicator System. They are produced on a crack-n-peel paper for convenient removal from the pad and then placement on the graph supports.

2151 AA  Analog Selectors (set)
The Analog Selectors are used in conjunction with lateral check bites to determine the amount of Bennett shift for selecting the proper Motion Analog for the individual patient. They measure from 0 to 3mm Bennett shift per side.

1770 AA  Adjustable Incisal Table (PCH)
1780 AA  Adjustable Incisal Table (PSH & SH)
The Adjustable Incisal Table can be set to different incisal and lateral angles to help guide the fabrication of removable prostheses.

1760 AA  Broadrick Occlusal Plane Analyzer
The Broadrick Occlusal plane analyzer is used for analyzing the Curve of Spee and developing an acceptable curve of occlusion. A flag or semaphore is common to the art of dentistry and has been used and described many times in writings or teaching procedures over the years.
ARTICULATOR ACCESSORIES

2090 AA  Articulator Test Column
2890 AA  Articulator Test Column (Magnetic)

The Articulator Test Column is used to check the accuracy of the interchangeable model PCH and PSH articulators. Pour the last section with stone to form a split cast index. The column can be sent to your laboratory to check if the compatibility is the same as your articulator.

8210 AA  Molded Plastic Case

This high impact, molded Plastic Case is used to carry the articulator, face-bow, mandibular mounting stand, mounting plates and diagnostic casts with room left over for accessory supplies. Convenient to carry to the lab, study club or workshop meetings.

2094 AA  Articulator Support Legs

The new articulator support legs allow the articulator to be angled back 45° to give a direct, hands-free overall view of the dental casts. The new support legs will facilitate technicians in the laboratory, help dentists in diagnosing and photography procedures, and are essential for patient education and consultations. The support legs easily slide and clip onto the lower frame of all Panadent articulators.

2013 AA  Incisal Table (plastic)

This is the standard Panadent plastic incisal table for the articulator. Included is the attachment thumb screw. It is molded with a threaded brass insert for the attachment screw. The table is also used with the Panadent CPI-III System.

9904 AA  Hex Wrench (for articulator)

This is the standard wrench for locking the articulator motion analog shafts, mounting plate screws, mounting plate thumb screw knobs, etc.

9850 AA  Pana-Lube™ Silicone Spray

The pressurized canister has a special release and lubrication agent for all Panadent Mounting Plates, Articulators, Axis Mounting System, Mandibular Mounting Stand, etc.
2250 ME  Axis Mounting System (AMS)
2251 ME  Axis Mounting Stand Assembly (Basic)

The Axis Mounting System is used for mounting the maxillary cast to the true hinge axis and can also be used for mounting the average (ear-bow) axis. It comes with a built-in bite fork support and remount jig. Also included is the Cross Rod and Clamp used with the Panamount™ Face-Bow and axis recording arms to transfer of the patient's cast on the hinge axis.

2280 ME  Mandibular Mounting Stand (MMS)

The Mandibular Mounting Stand supports the articulator upside down to aid in mounting the mandibular cast. Inserting the Dyna-Link pins into the holes in the stand creates a solid support for the articulator. The front of the articulator can be adjusted with the support pin to level cast to prevent the mounting stone from sliding off the cast during the mounting procedure.

2479 ME  Mandibular Mounting Plate Spacer Assy.

The spacer is attached to the mandibular frame of "H" (high model) Panadent articulator to convert it to be compatible with the discontinued "L" model articulator. Casts which have been mounted on low (L) model articulators can be transferred to a high (H) model articulators provided this spacer is placed on the mandibular frame of the high (H) articulator.

2870 ME  Bite-Fork Support

The Bite-Fork Support (magnetic) System was developed to create a sturdy platform for an easy to use method of supporting the Bite-Fork during mounting procedures on the articulator without having to use plaster.

4054 ME  Mounting Fixture (Low / High-Panadent, Whip-Mix)

The Mounting Fixture is used with the Panamount™ Face-Bow to index the bite fork assembly in the articulator. It is placed in the incisal table area of the Panadent articulator. The fixture is compatible with either low (L) or high (H) model Panadent articulators. The Mounting Fixture is included with each Panamount™ Face-Bow.
2850 MP  Magna-Split II™ System
Includes:
2 Split-Cast Magnetic Mounting Plates, 20 Plastic Index Plates

2860 MP  Magna-Split™ Index Plates (20)
2861 MP  Magna-Split™ Index Plates (50)
2862 MP  Magna-Split™ Index Plates (100)
These pre-formed plastic Index Plates attach directly to the magna-Split Mounting Plate for quick and easy mounting of study casts.

2804 MP  Magna-Split™ Mounting Plate
The mounting plate comes with removable rare earth magnet and two stainless steel cap screws for fixing the plate to upper or lower frame of the articulator. (Picture shows magnet in place.)

2706 MP  Plastic Mounting Plates (10)
2707 MP  Plastic Mounting Plates (20)
2708 MP  Plastic Mounting Plates (50)
These Plastic Mounting Plates are inexpensive standard mounting plates. They can be used with several brands of articulators including Panadent, Whip-Mix, TMJ and Stuart.
FACE-BOW AND ACCESSORIES

4000 FB  Pana-Mount™ Face-Bow

The Pana-Mount™ Face-Bow features wrench or wrenchless detachable bite fork assemblies which allows the face-bow to be used for multiple patients without having to mount casts immediately. It has a standard 22mm nasion relator as well as an orbital pointer. Comfortable ear pieces and foam nasion pad increase patient comfort. The face-bow can be used as an average axis ear-bow as well as a true transverse axis bow (in conjunction with the Axis Mounting System and Axi-Path Recorder).

Includes:
Face-Bow, two complete Bite Fork Assemblies, Mounting Fixture, Standard Nasion Relator, T-Screws, and Hex Wrench

4080 FB  Adjustable Nasion Relator

The Adjustable Nasion Relator is used in conjunction with the Bio-Esthetic™ Level Gauge to level the face-bow in the sagittal plane when the patient's head is erect. The adjustable nasion is calibrated in millimeters from nasion. There is a long and a short extension with each kit which allows the anterior reference point to be changed in a range from 25mm to 45mm (short: 25-35mm, long: 35-45mm).

4070 FB  Bio-Esthetic™ Level Gauge

The Bio-Esthetic™ Level Gauge is used to help align the average axis face-bow horizontal so the anterior esthetic plane of the teeth can be established correctly on the articulator.

Includes:
One Magnetic Level Gauge and two self-adhesive ferrous metal discs (one for each side of face-bow)

4027 FB  Bite Fork Assembly (complete)

The detachable Bite Fork Assembly is used with the Pana-Mount™ Face-Bow and comes complete with a standard bite fork and stem assembly, as well as T-Screws. By having extra bite fork assemblies, the operator can use one face-bow for multiple patients consecutively.

4030 FB  Bite Fork Stem Assembly (only)

This fixture is for attaching the bite fork to the Pana-Mount™ Face-Bow. It is the same assembly as item 4027, excluding the bite fork. The T-Screws are also included.
FACE-BOW AND ACCESSORIES

4028 FB  Bite Fork (regular)

The standard bite fork is used with the *Pana-Mount*™ Face-Bow and bite fork stem assembly. Constructed of all stainless steel it is designed for easy cleaning and sterilization. The mid-line mark helps for orientation in the mouth and the flat surface of the mouth piece makes for easy placement of Panadent *Bite-Tab*™ compound discs.

4037 FB  Bite Fork (full denture)

The full denture bite fork is used with the *Pana-Mount*™ Face-Bow and bite fork stem assembly for transferring maxillary bite-rim and edentulous cast to the articulator. Constructed of all stainless steel it is designed for easy cleaning and sterilization. The mid-line mark helps for orientation in the mouth.

4038 FB  Pedo Bite Fork (child)

The pedo bite fork is used with the *Pana-Mount*™ Face-Bow and bite fork stem assembly. Constructed of all stainless steel it is designed for easy cleaning and sterilization. The mid-line mark helps for orientation in the mouth and the flat surface of the mouth piece makes for easy placement of Panadent *Bite-Tab*™ compound discs.

9925 FB  Hex Wrench (for Face-Bow)

This wrench is used with the *Pana-Mount*™ Face-Bow for attaching the bite fork and stem assembly to the face-bow. The wrench has a large handle for easy torque and a "ball" end so the angle of insertion into the clamping toggle is not critical.

4022 FB  Nasion Pad (1 set of two pieces)

The foam cushioned Nasion Pad is used with either the *Pana-Mount*™ Face-Bow or Axi-Path Recorder head frame. The two halves slide easily over the nasion retractor to create a comfortable cushion for the patient's nose during face-bow or Axi-Path recording procedures.

4450 FB  T-Screws for stem assembly (set of 2)
4026 FB  Thumb Screw for cross bar on face bow
4025 FB  T-Screw (for mounting fixture)

These T-Screws allow the Pana-Mount Face-Bow & Bite-Fork Assemblies to become a wrenchless system.
KOIS DENTO-FACIAL ANALYZER SYSTEM

4300 KS  Kois Dento-Facial Analyzer System

The Kois Dento-Facial Analyzer System registers and transfers the patient's occlusal plane as well as tilts in the occlusal plane in three planes of space to the articulator related to an average 100mm axis-incisal distance. O-rings can be adjusted on the Vertical Indicator Rod to the patient's facial landmarks for the evaluation of facial proportions. The height of the lip commissures can be measured from the Index Tray for marking on the study casts.

Includes:
#4305  Kois Dento-Facial Analyzer
#4360  Kois Adjustable Platform

4305 KS  Kois Dento-Facial Analyzer

The Kois Dento-Facial Analyzer is used with the Index Trays to register and transfer the patient's occlusal plane as well as tilts in the occlusal plane in three planes of space to the articulator.

Includes:
#4322  Kois disposable Index Trays (20)

4322 KS  Kois Disposable Index Trays (20)
4323 KS  Kois Disposable Index Trays (50)
4324 KS  Kois Disposable Index Trays (100)

The disposable index trays are used with the Kois Dento-Facial Analyzer and provides a permanent or disposable bite-fork registration record.

4360 KS  Kois Adjustable Platform

The Kois Adjustable Platform is used with the Kois Index Trays to mount the patient's occlusal plane as well as tilts in the occlusal plane to the articulator. The platform can be adjusted in millimeters to determine incisal length. The platform is also used in conjunction with the Golden Proportion Waxing Guides.

Includes:
# 4331 Standard Waxing Guide
CONDYLE POSITION INDICATOR SYSTEM

2500 CP  CPI-III (H) Complete System

The Condylar Position Indicator (CPI) is a precision instrument for tracking condyle positions to a stable position during occlusal splint therapy and determining CO/CR discrepancies ("slide" or "fulcrum").
Includes:
- Optical resolver, maxillary and mandibular frames with support column, axis pointer yoke, adhesive rods, adhesive dispenser, data record sheets (50), graph papers (20), GlueTabs (20) and elastic support bands (12).

2560 CP  CPI-III Basic System
Includes:
- Maxillary and mandibular frames with support column, graph papers (20), and Data record sheets (50).

9611 CP  CPI Graph Pad (20 sets)

The Graphs are printed on crack-n-peel adhesive paper for easy placement and removal on the graph supports. Each pad has a right and left vertical (sagittal) mm grid and a horizontal grid for lateral condylar axis changes. The grids are printed in green ink on white paper.

9615 CP  CPI Data Record Sheets (50)

The Data Record Sheets are used to store the used graph papers on an organized sheet for quick reference. Three CPI readings and one axi-path recording can be placed on one sheet (8" x 11). The 50 individual sheets are glued together on one edge for easy storage and removal.

8275 CP  CPI GlueTab™ (20)

The GlueTabs come in a booklet of four tabs per sheet. The adhesive backed GlueTabs are placed on the plastic incisal table so the hot melt adhesive rod material that supports the anterior vertical pin can be easily removed after a condylar position recording has been made.

3015 CP  CPI Shur-Grip™ Adhesive Rods (12)

These hot melt adhesive rods are used in the glue gun dispenser for joining the anterior support pin solidly to the diamond shaped support table also known as the incisal table.
AXI-PATH RECORDERS

7600 AP  Axi-Path III Recorder

The Axi-Path III is a pana-digit jaw movement recorder. It includes a comfortable, light weight head frame that supports right and left vertical graph papers over the transverse intercondylar axis area. The head frame requires no maxillary clutch. The mandibular frame consists of a disposable plastic attachment clutch, a cross bar and right and left axis locating arms. The protrusive pathway is recorded in analog form in the sagittal plane on the graph papers, while the horizontal recording in digital form is used to select preformed analogs of condylar axis motion. The axis/orbital reference plane and see-through protractor are used to adjust the angulation of the articulator condylar guides (motion analogs).

The Axi-Path III Recorder features the macro-micro adjustable axis recording arms for easy and accurate location and transfer of the transverse axis.

7501 AP  Axi-Path II Recorder

The Axi-Path II Recorder is identical to the Axi-Path III except for the axis recording arms which use a friction type (E-Z Find) macro adjustable clamp for simple and rapid location of the axis.
AXI-PATH RECORDER ACCESSORIES

7040 AP  Edentulous Outriggers
The Edentulous Outrigger System is used with either the Axi-Path II or Axi-Path III Recorder. They attach to the cross rod to add outriggers which support two elastic bands to form a sling under the patient's mandible. The anterior discler on the Axi-Path clutch contacts the anterior edentulous ridge to hold the disposable clutch onto the edentulous ridge during the recording procedure.

7691 AP  Disposable Clutches (10)
The clutches are used with the Axi-Path Recorder to attach the axis recording arms to the mandible. Each clutch comes with three different size discluders (S,M,L). The clutches are designed to break apart in four sections for easy removal after the jaw movement recording procedure is completed. They can be cut shorter by the operator so that one size fits all. The clutch is attached to the mandibular teeth with quick setting plaster.

7685 AP  Axis Graph Papers (20 sets-paper)
These Graph Papers are used with either the Axi-Path II or Axi-Path III Recorder. They are printed on crack-n-peel adhesive backed paper for easy placement on the Axi-Path graph supports. The lines are marked in 1mm, 5mm and 10mm squares. The graph papers are conveniently marked with 12:00, 3:00, 6:00 and 9:00 positions for easier location of the transverse axis.

7686 AP  Marking Dye (certified U.S. Goverment standard)
This dye is used to mark the transverse (hinge) axis on the patient's skin for axis face-bow transfer.

9531 AP  Writing Leads (12 Red)
9530 AP  Writing Leads (12 Black)
These are replacement leads for the writing stylus for tracing mandibular movements during the recording procedure with the Axi-Path II or Axi-Path III recorders.

7695 AP  Rubber Head Bands (2)
These are replacement head bands for the Axi-Path II and Axi-Path III recorders.