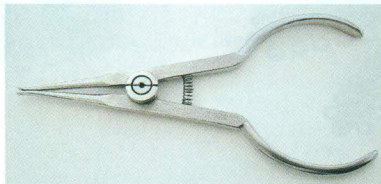
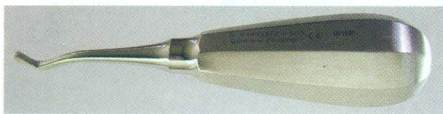
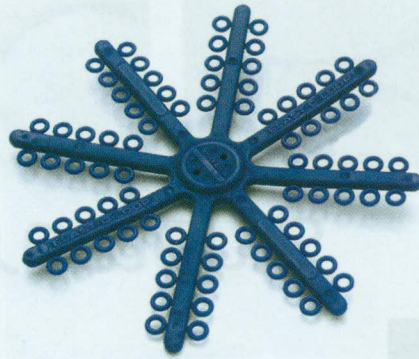


Orthodontic Instruments





INSTRUMENT Elastic Separators

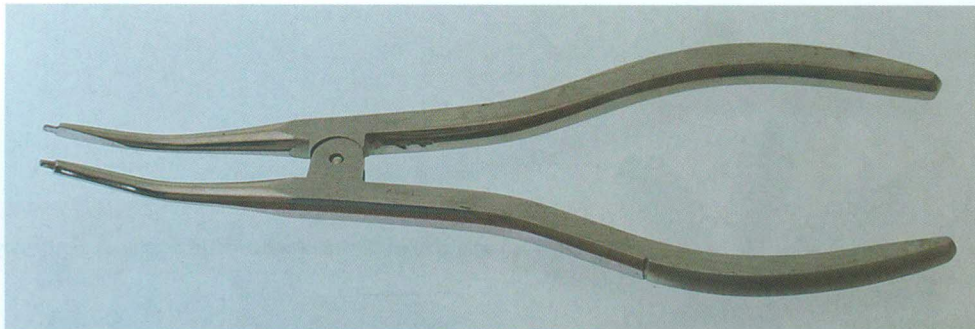
Functions ▶ To separate teeth prior to banding a tooth for orthodontic braces
To place around contact area of tooth

Characteristic ▶ Elastomeric separators—Various sizes for different contact areas

Practice Note ▶ Separators are placed on orthodontic separating tray setup.



Elastomeric Separators should be disposed of in the garbage. Single use only.



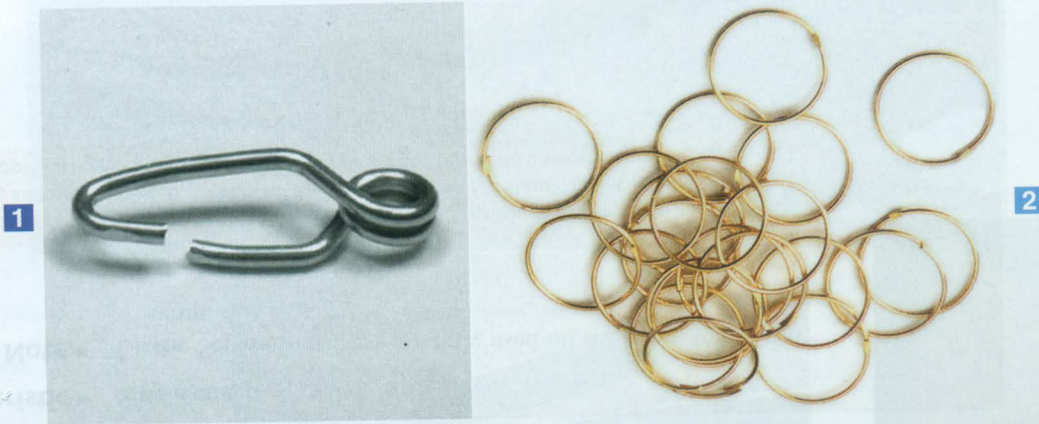
INSTRUMENT Elastic Separating Pliers

- Function** ▶ To grip and place separators around contact area of tooth
- Characteristic** ▶ Single ended
- Practice Note** ▶ Elastic Separating Pliers are only used on the orthodontic tray setup.



S Elastic Separating Pliers must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.

Photos courtesy Patterson Dental Co., Inc., St. Paul, MN (Steel Spring Separators) and DynaFlex, St. Louis, MO (Brass Wire Separators).



INSTRUMENT Steel Spring Separators/Brass Wire Separators

Functions ▶ To separate teeth prior to banding a tooth for orthodontic braces
To place around contact area of tooth

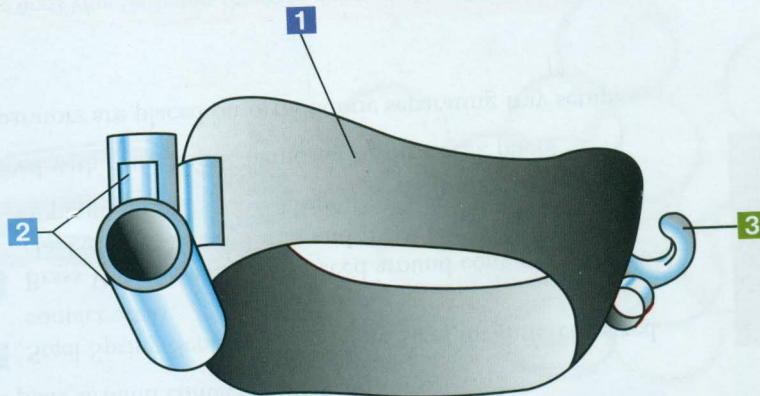
- Characteristics ▶**
- 1** Steel Spring Separators—Various sizes for different-sized contact areas
 - 2** Brass Wire Separators—Placed around contact and twisted clockwise, then cut 3 mm and tucked in order not to impinge on tissue or occlusion

Placed with orthodontic hemostat or bird beak pliers

Practice Note ▶ Separators are placed on orthodontic separating tray setup.



S Steel Spring Separators and Brass Wire Separators should be disposed of in a Sharps container. Single use only.

**INSTRUMENT****Orthodontic Band With Tubing and Hook****Functions ▶**

- To fit and cement or bond band around the middle third of the coronal part of the tooth
- To hold orthodontic arch wire in place (arch wire moves the teeth, many different shapes and sizes)
- To secure headgear in tubing on band

Characteristics ▶

- 1** Band
- 2** Tubing:
 - Arch wire tube (top)—Holds arch wire in place
 - Headgear tube (bottom)—Holds headgear in place
- 3** Hook—Place where elastics are attached

Practice Note ▶ Orthodontic Band is used on orthodontic banding tray setup.



Orthodontic Band should be disposed of in a Sharps container. Single use only.



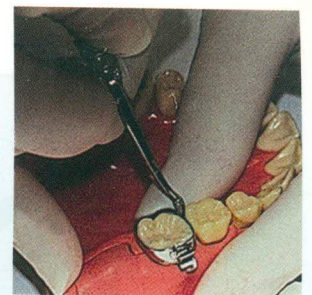
INSTRUMENT Band Pusher

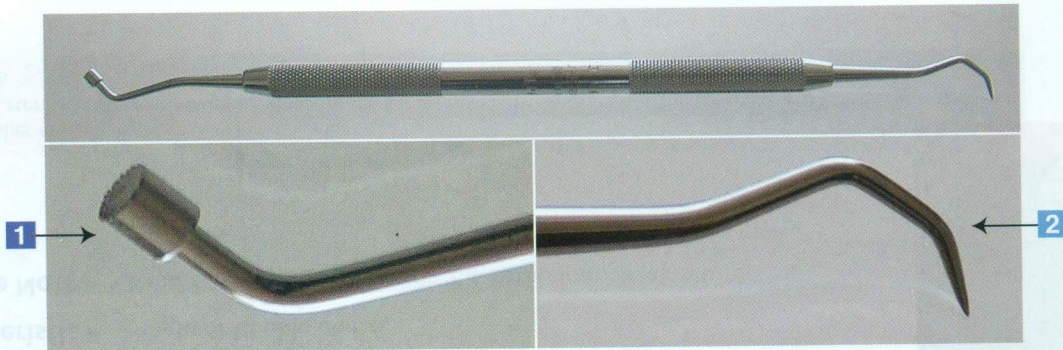
Function ▶ To push orthodontic bands into place during try-in and cementing phases

Characteristic ▶ Single or double ended

Practice Note ▶ Band Pusher is only used on the orthodontic tray setup.

S Band Pusher must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping.





INSTRUMENT Band Pusher or Plugger With Scaler

Functions ▶ To seat or place orthodontic bands during try-in and cementing phases
To remove excess material after cementation or bonding of bands

Characteristics ▶ Double ended:

- 1 Band Pusher or Plugger
- 2 Scaler

Practice Note ▶ Band Pusher With Scaler is only used on the orthodontic tray setup.

S Band Pusher or Plugger With Scaler must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping.



INSTRUMENT Band Seater—Bite Stick

- Function** ▶ To assist seating or placing of orthodontic bands for try-in or cementing phase
- Characteristics** ▶ Single ended
Available in square tip or triangle tip (pictured)
- Practice Notes** ▶ The patient bites down on the smooth end of the instrument to apply pressure to seat the band. Band Seater—Bite Stick is only used on the orthodontic tray setup.

S Band Seater—Bite Stick must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping.



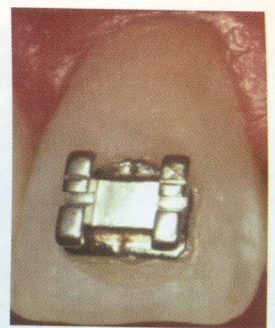
INSTRUMENT Orthodontic Bracket

Function ▶ To hold orthodontic arch wire in place (Arch wire moves the teeth.)

Characteristics ▶ Band is bonded to tooth.
Brackets (cleats)—Hold arch wire in place
Many different types available:

- 1 Metal brackets
- 2 Ceramic brackets (for esthetic purposes)

Practice Note ▶ Orthodontic Brackets are used on orthodontic bonding tray setup.



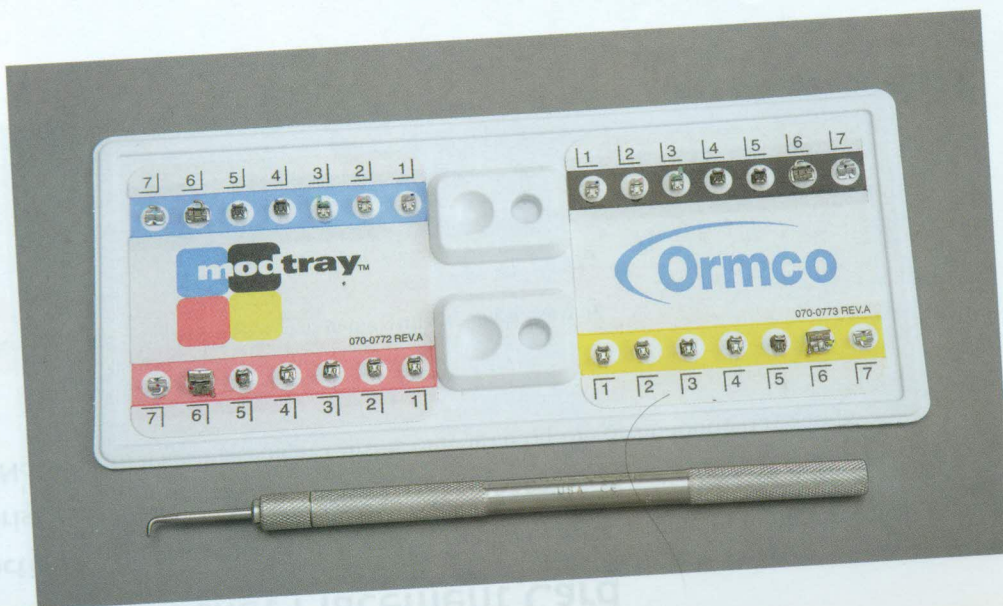
S Orthodontic Brackets should be disposed of in a Sharps container. Single use only.



■ INSTRUMENT Bracket Placement Card

- Function** ▶ To place each bracket and/or band on card according to tooth placement in mouth
- Characteristic** ▶ Tape on card holds brackets in place before they are bonded to teeth.
- Practice Note** ▶ Bracket Placement Card is only used on the orthodontic tray setup.

S Bracket Placement Card should be disposed of in the garbage. Single use only.



INSTRUMENT

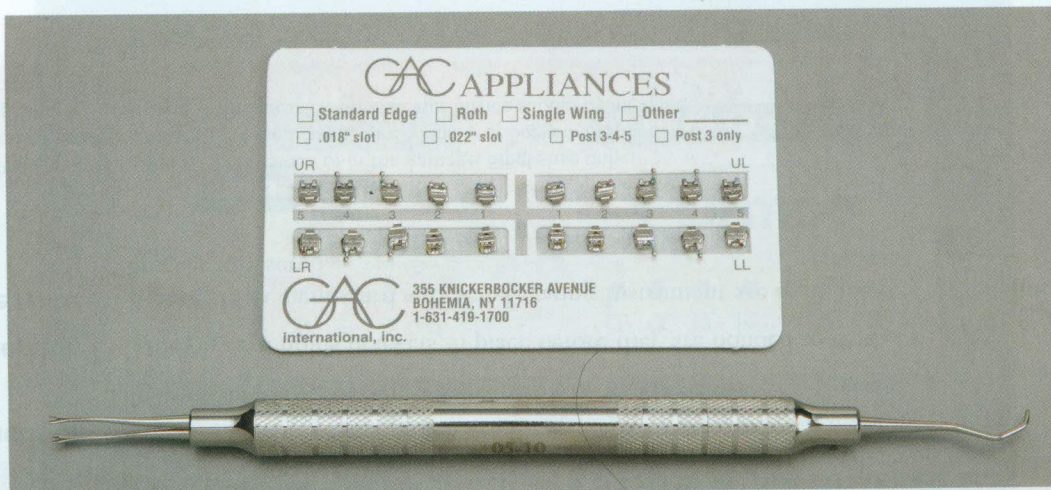
Bracket Placement Card for Damon Self-Ligating Brackets With Self-Ligating Instrument

Functions ▶ To place each bracket on card according to tooth placement in mouth
Instrument—To close bracket around arch wire; ligature tie not needed

Characteristic ▶ Tape on card holds brackets in place before they are bonded to teeth.

Practice Note ▶ Bracket Placement Card and Self-Ligating Instrument are used only on orthodontic bonding bracket tray setup.

S Bracket Placement Card should be disposed of in the garbage. Single use only. Self-Ligating Instrument must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping.



■ INSTRUMENT

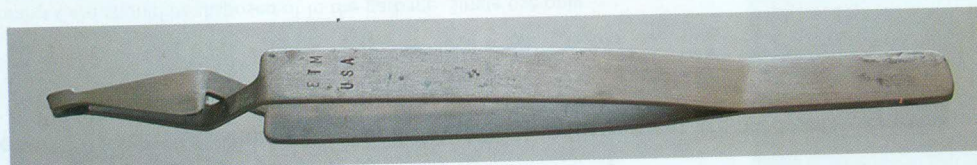
Bracket Placement Card for GAC Self-Ligating Brackets With Self-Ligating Instrument

Functions ▶ To place each bracket on card according to tooth placement in mouth
Instrument—To open and close bracket around arch wire; ligature tie not needed

Characteristic ▶ Tape on card holds brackets in place before they are bonded to teeth.

Practice Note ▶ Bracket Placement Card and Self-Ligating Instrument are used only on orthodontic bonding bracket tray setup.

S Bracket Placement Card should be disposed of in the garbage. Single use only. Self-Ligating Instrument must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping.



■ INSTRUMENT

Anterior Bracket Placement Pliers

Functions ▶ To hold and carry bracket by placing tip of pliers into slot of bracket
To place bracket on tooth for bonding

Characteristic ▶ Range of sizes

Practice Note ▶ Anterior Bracket Placement Pliers are only used on the orthodontic tray setup.

S Anterior Bracket Placement Pliers must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping.



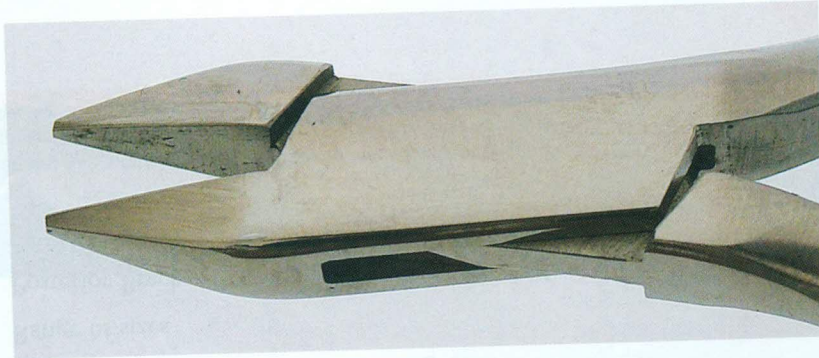
INSTRUMENT

Posterior Bracket Placement Pliers

- Functions** ▶ To hold and carry bracket by placing tip of pliers into slot of bracket
To place bracket on tooth for bonding
- Characteristic** ▶ Range of sizes
- Practice Note** ▶ Posterior Bracket Placement Pliers are only used on the orthodontic tray setup.



Posterior Bracket Placement Pliers must be cleaned, bagged individually or bagged/ wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping.



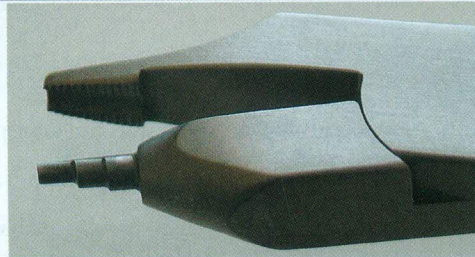
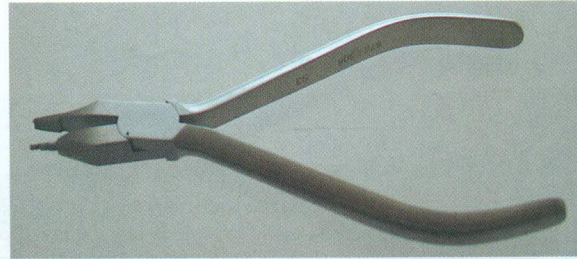
■ INSTRUMENT Arch-Bending Pliers

Function ▶ To bend arch wires

Characteristic ▶ Variety of styles, depending on type of arch wire used—Round, square, or rectangular

Practice Note ▶ Arch-Bending Pliers are only used on the orthodontic tray setup.

S Arch-Bending Pliers must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.



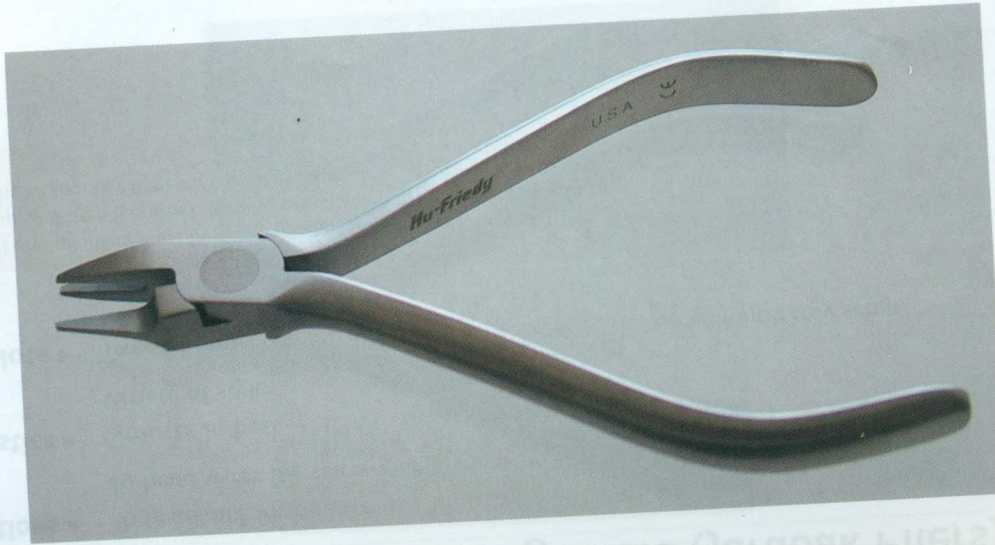
■ INSTRUMENT Tweed Loop-Forming Pliers (Jarabak Pliers)

Functions ▶ To bend and form loops in arch wire
To bend wires for removable appliances

Characteristics ▶ Grooves in beak—Help to bend and form loops in wire
Variety of styles

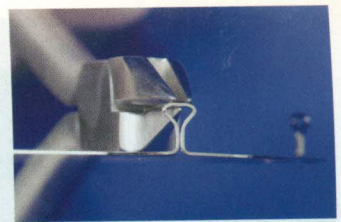
Practice Note ▶ Tweed Loop-Forming Pliers are only used on the orthodontic tray setup.

S Tweed Loop-Forming Pliers must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.

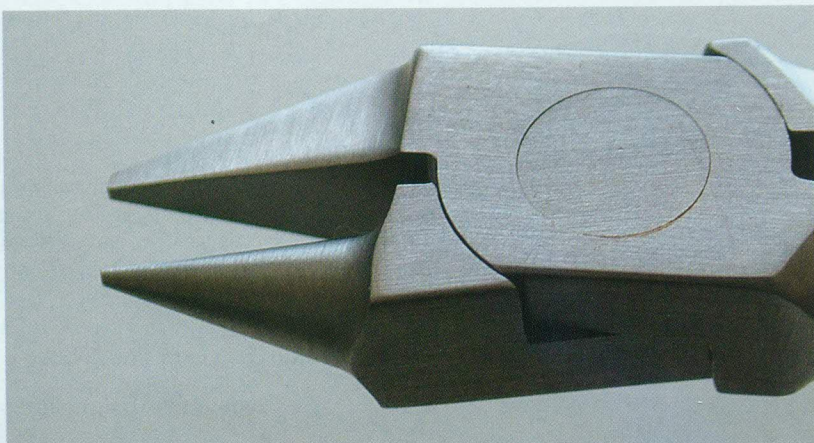


■ INSTRUMENT Three-Prong Pliers

- Function** ▶ To contour and bend light wire
- Characteristic** ▶ Range of sizes available
- Practice Note** ▶ Three-Prong Pliers are only used on the orthodontic tray setup.



S Three-Prong Pliers must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.

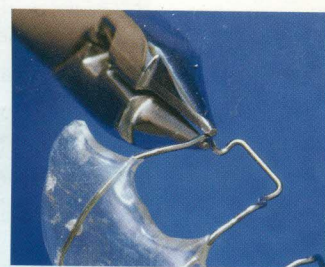


INSTRUMENT Bird Beak Pliers

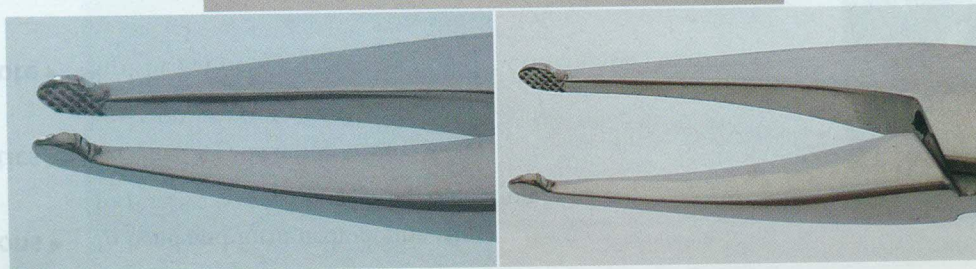
- Functions** ▶ To bend and form orthodontic wire
To remove bonded bracket by squeezing bracket

- Characteristics** ▶ Versatile wire-bending pliers
Beaks on working end meet very precisely

- Practice Note** ▶ Bird Beak Pliers are only used on the orthodontic tray setup.



- S** Bird Beak Pliers must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.



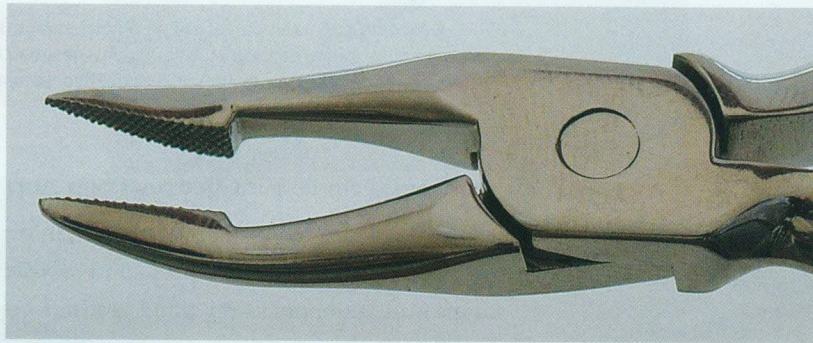
■ INSTRUMENT How (or Howe) Pliers

Functions ► To place and remove arch wires
To check for loose bands

Characteristics ► All-purpose pliers for orthodontic procedures
Serrated tips for better grip on wire
Straight or curved beaks

Practice Note ► How Pliers are only used on the orthodontic tray setup.

S How Pliers must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.



INSTRUMENT Weingart Utility Pliers

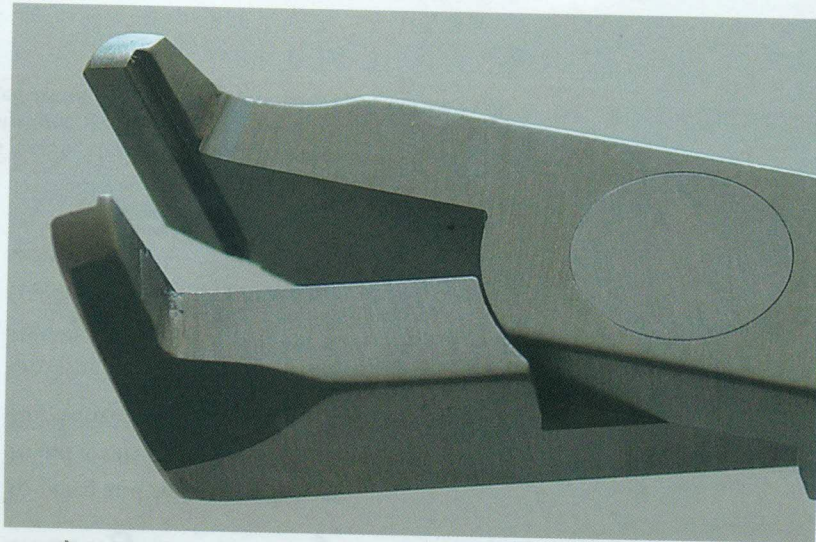
- Functions ▶** To place and remove arch wires
To aid a variety of functions for orthodontic procedures
To remove bonded brackets by squeezing bracket

- Characteristic ▶** Working ends—Tapered, slim tips to allow pliers to fit between brackets for ease of arch wire placement

- Practice Note ▶** Weingart Utility Pliers are only used on the orthodontic tray setup.



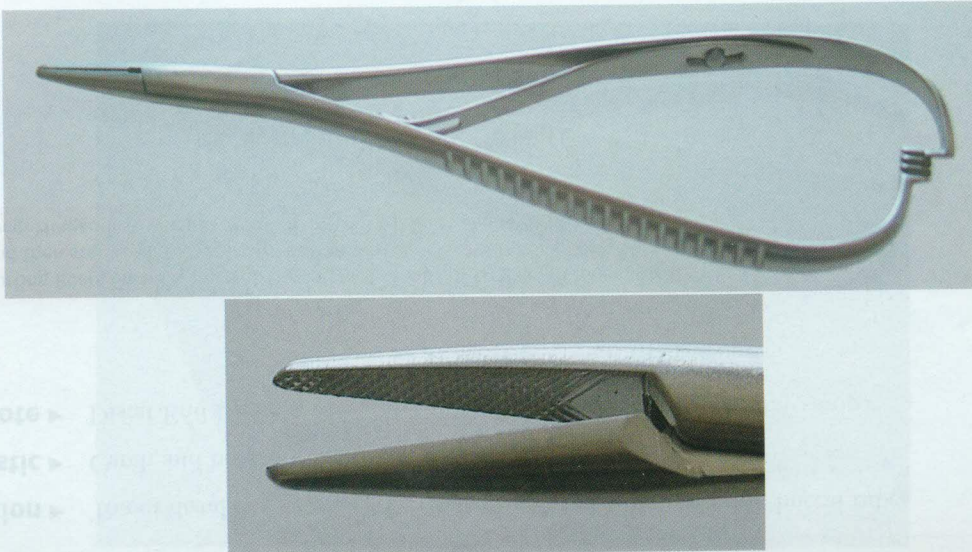
S Weingart Utility Pliers must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.



INSTRUMENT Distal End-Cutting Pliers

- Function** ▶ To cut distal end of arch wire after placement in brackets and buccal tubes
- Characteristic** ▶ Catch and hold excess wire after wire has been cut
- Practice Note** ▶ Distal End-Cutting Pliers are only used on the orthodontic tray setup.

S Distal End-Cutting Pliers must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.



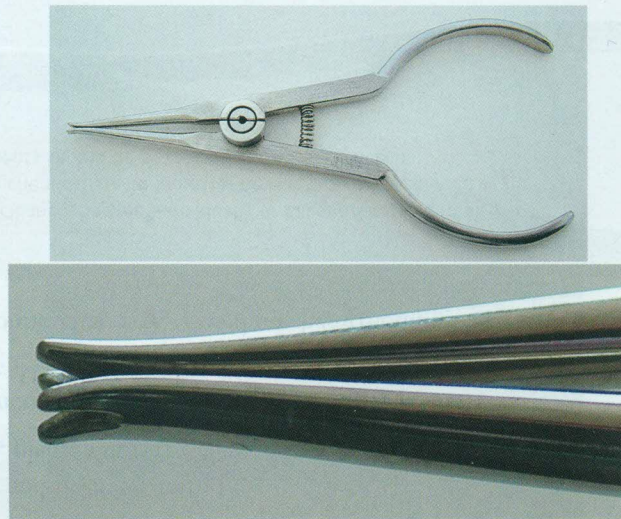
■ INSTRUMENT Orthodontic Hemostat

Functions ▶ To hold and place separators
To hold, place, and/or tie ligatures to arch wire

Characteristic ▶ Multifunctional instrument for orthodontic procedures
Example: Mathieu pliers

Practice Note ▶ Orthodontic Hemostat is used on the orthodontic tray setup.

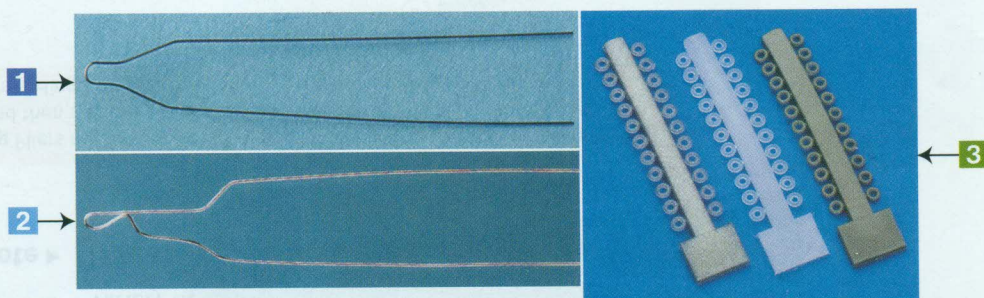
S Orthodontic Hemostat must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.



■ INSTRUMENT Ligature-Tying (Coon) Pliers

- Function** ▶ To tie in ligature to arch wire
- Characteristics** ▶ Channel on pliers—Locks wire ends in place as tips spread
Variety of styles
- Practice Note** ▶ Ligature-Tying Pliers are only used on the orthodontic tray setup.

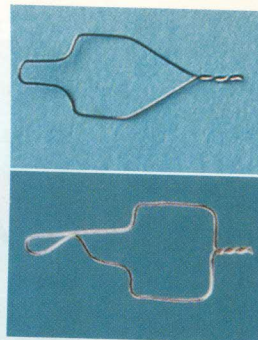
S Ligature-Tying Pliers must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.

**INSTRUMENT****Ligatures Ties**

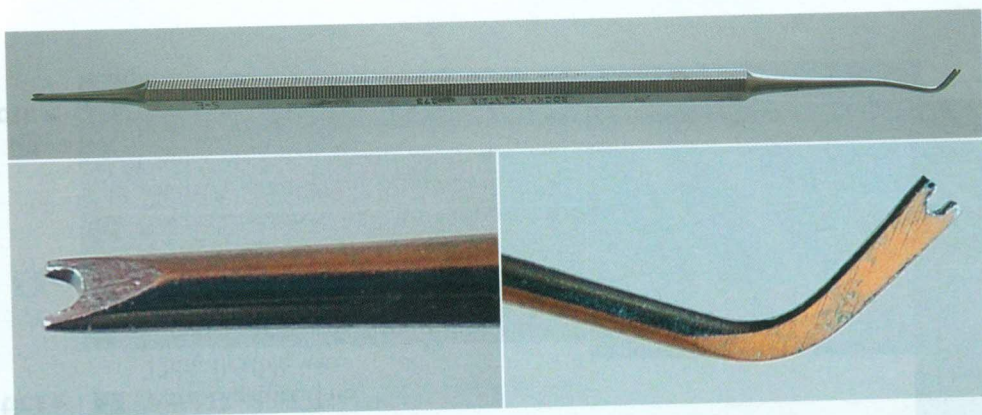
Function ▶ To secure the arch wire to the band or bracket

- Characteristics** ▶
- 1** Wire Ligature Ties
Thin, flexible wire
Comes in precut length or spools
 - 2** Kobayashi Ties
Preformed hook
 - 3** Elastic Ligature Ties
Available in different colors
Comes on a stick (pictured), canes, and chains

Practice Note ▶ Ligature Ties are used on the orthodontic archwire placement tray setup.



Wire Ligature Ties should be disposed of in a Sharps container.
Elastic Ligature Ties should be disposed of in garbage.



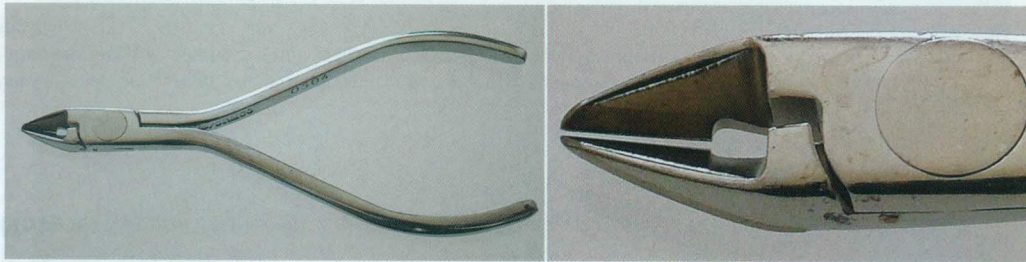
■ INSTRUMENT Ligature Director

Function ▶ To place ligature wire around brackets after it has been tied to arch wire

Characteristics ▶ Single or double ended
Ends of instrument—Have notches to assist placement of ligature tie around brackets

Practice Note ▶ Ligature Director is used on the orthodontic archwire placement tray setup.

S Ligature Director must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping.



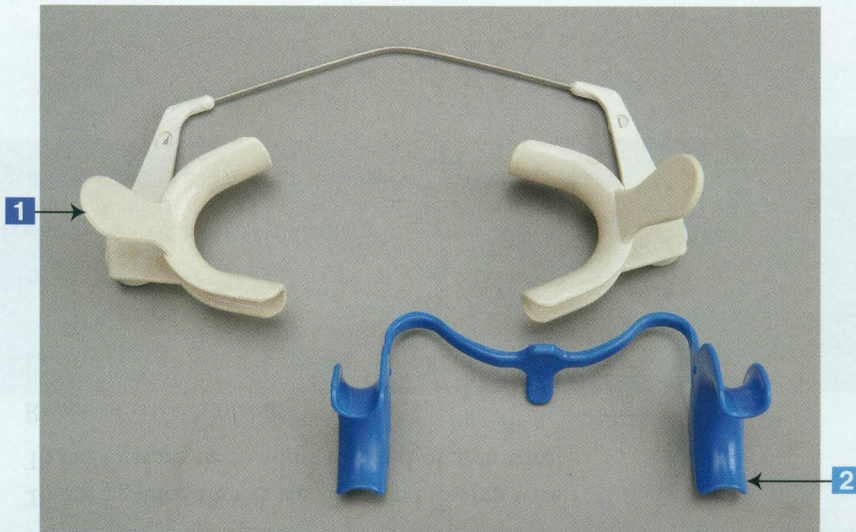
■ INSTRUMENT Ligature/Wire Cutters

Functions ▶ To cut ligature after it has been tied to arch wire
To cut ligature tie to allow removal of arch wire

Characteristic ▶ Range of sizes available

Practice Note ▶ Ligature/Wire Cutters are used on the orthodontic tray setup.

S Ligature/Wire Cutters must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.



■ INSTRUMENT Lip Retractors

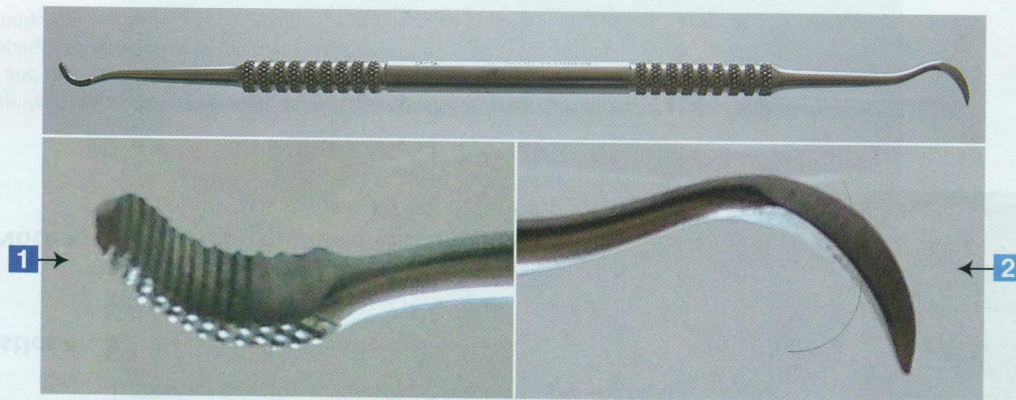
Functions ▶ To retract lips, allowing for intraoral access for bonding brackets
To retract lips for intraoral orthodontic photographs

Characteristics ▶ **1** Reusable Lip Retractors
2 Disposable Lip Retractors

Practice Note ▶ Lip Retractors are used with orthodontic procedures and other tray setups that include taking intraoral photographs.



S Reusable Lip Retractors must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Disposable Lip Retractors should be disposed of in the garbage. Single use only.



INSTRUMENT Orthodontic (Shure) Scaler

- Functions ▶**
- To place brackets for bonding (both ends)
 - To remove separators (scaler end)
 - To remove elastic ligature ties (scaler end)
 - To remove excess cement or bonding material (scaler end)
 - To check for loose bands and brackets (both ends)

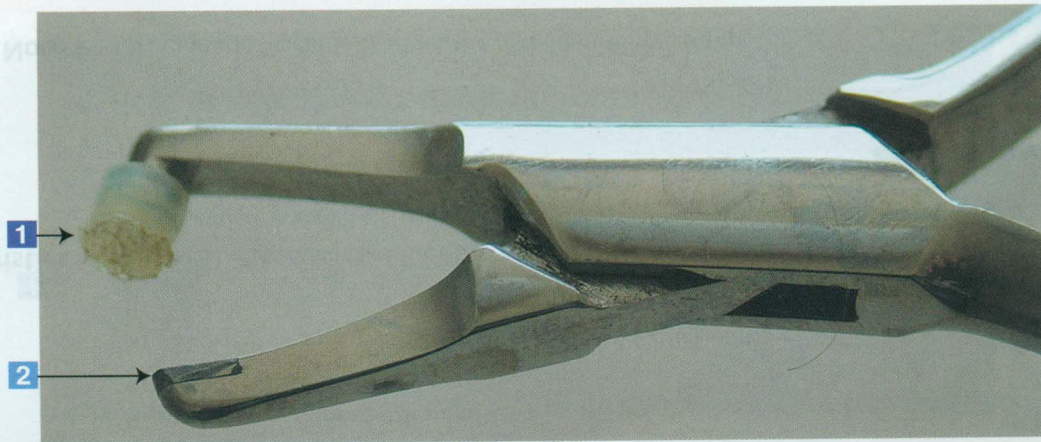
- Characteristics ▶** Universal instrument used for several orthodontic functions
- Single ended—Scaler or band pusher
- Double ended:

- 1 Band pusher
- 2 Orthodontic scaler



- Practice Note ▶** Orthodontic Scaler is used on the orthodontic tray setup.

S Orthodontic Scaler must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping.



■ INSTRUMENT Posterior Band Remover

Function ▶ To remove orthodontic bands from teeth

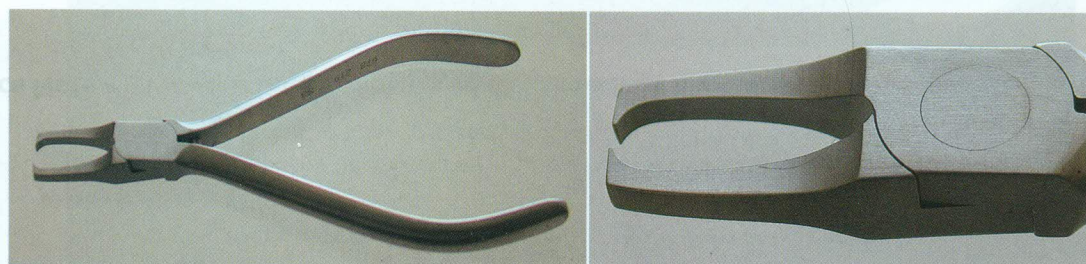
Characteristics ▶ Two beak types:

- 1** One beak has round cover to place on occlusal surface of tooth to prevent damage during removal of band. Cover can be replaced.
- 2** Opposite beak is curved and is placed on gingival side of bracket to apply pressure and remove band from tooth.

Practice Note ▶ Posterior Band Remover is used on the orthodontic tray setup.



S Posterior Band Remover must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.



■ INSTRUMENT Bracket Remover

- Function** ▶ To remove anterior or posterior brackets from teeth
- Characteristic** ▶ Grasp bracket to remove it from tooth.
- Practice Note** ▶ Bracket Remover is used on the orthodontic tray setup.

S Bracket Remover must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.



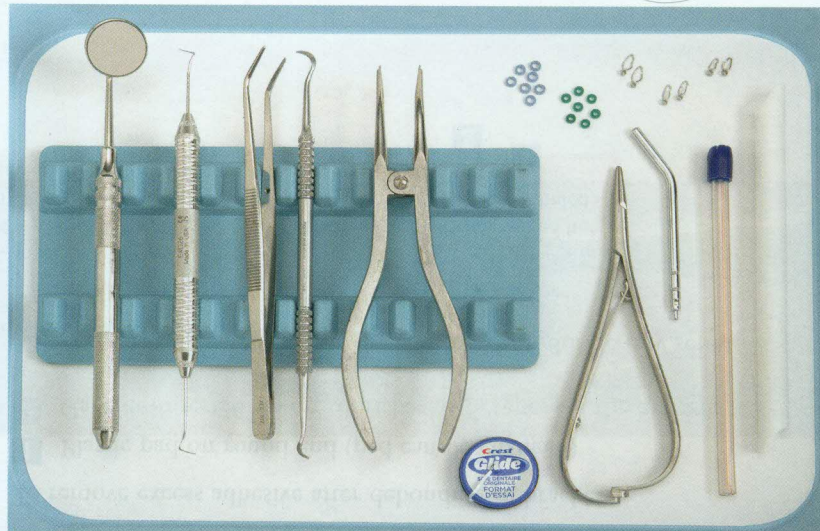
■ INSTRUMENT Adhesive-Removing Pliers

Function ▶ To remove excess adhesive after debonding of brackets

- Characteristics** ▶
- 1 Plastic pad on round end (pad can be changed)
 - 2 Carbide-inserted tip on short beak—Scrapes off the adhesive

Practice Note ▶ Adhesive-Removing Pliers are used on the orthodontic tray setup.

S Adhesive-Removing Pliers must be cleaned, bagged individually or bagged/wrapped in a tray setup, and then sterilized. A chemical/steam indicator device should be included in the wrapping. Hinged instruments should be processed open and unlocked.

**TRAY SETUP****Orthodontic Tooth Separating**

Top ► Elastic separators, spring coil separators

Bottom (From Left to Right) ► Mouth mirror, explorer, cotton forceps (pliers), orthodontic (Shure) scaler, elastic separating pliers, floss, orthodontic hemostat (Mathieu pliers), air/water syringe tip, low-volume saliva ejector tip, high-volume evacuation (HVE) tip



Refer to each individual picture for correct procedure for instrument sterilization or disposal of instrument or material.

Refer to other chapters for additional instruments on this tray setup that are not included in this chapter.



■ TRAY SETUP

Orthodontic Cementing and Bonding Brackets

Top Row (Left to Right) ▶

Bracket placement card with brackets, orthodontic bands, polishing agent without fluoride or glycerin, disposable prophy angle with polishing cup, air/water syringe tip

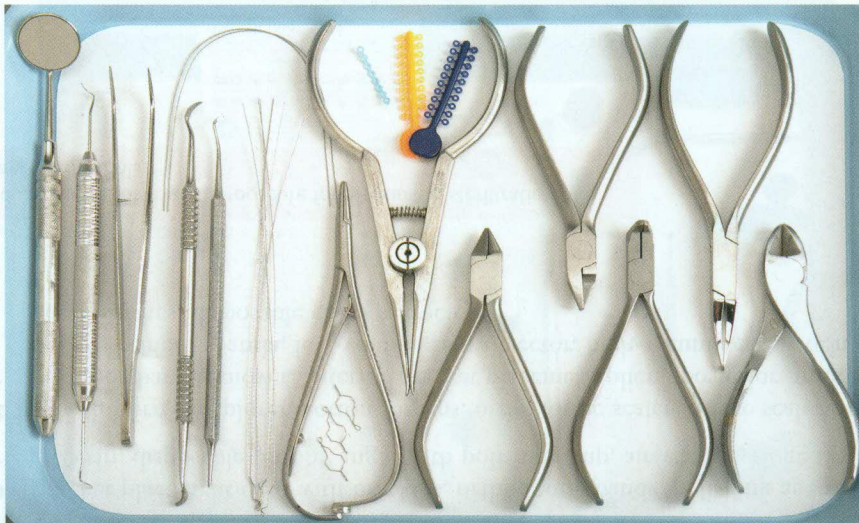
Bottom Row (Left to Right) ▶

Mouth mirror, explorer, cotton forceps, orthodontic scaler (Shure scaler), band seater-bite stick, posterior band remover, anterior bracket placement pliers, posterior bracket placement pliers, flexible cement spatula, low-volume saliva ejector, high-volume evacuation (HVE) tip, microbrushes, disposable cheek retractors



Refer to each individual picture for correct procedure for instrument sterilization or disposal of instrument or material.

Refer to other chapters for additional instruments on this tray setup that are not included in this chapter.



■ TRAY SETUP

Orthodontic Tying-In Arch Wire

Top (Left to Right) ►

Preformed archwire, elastic ligature ties

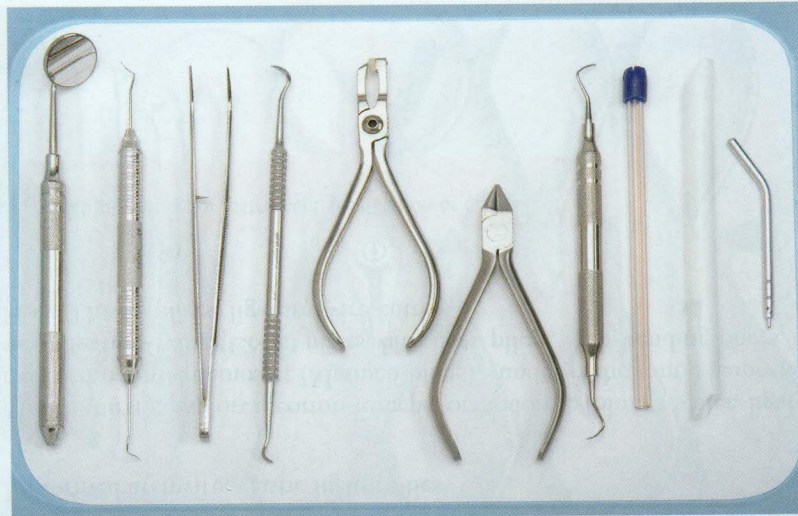
Bottom (Left to Right) ►

Mouth mirror, explorer, cotton forceps, orthodontic (Shure) scaler, ligature director, wire ligature ties, orthodontic hemostat (Mathieu pliers), (under orthodontic hemostat, short wire ligature ties), ligature-tying (Coon) pliers, bird beak pliers, arch-bending pliers, distal-end cutting pliers, How (Howe) pliers, ligature/wire cutters



Refer to each picture for correct procedure for instrument sterilization or disposal of instrument or material.

Refer to other chapters for additional instruments on this tray setup that are not included in this chapter.



■ TRAY SETUP

Orthodontic Removing Bands and Brackets

Left to Right ► Mouth mirror, explorer, cotton forceps, orthodontic (Shure) scaler, posterior band remover, bird beak pliers, universal curette, low-volume saliva ejector, high-volume evacuation (HVE) tip, air/water syringe tip

S Refer to each picture for correct procedure for instrument sterilization or disposal of instrument or material.

Refer to other chapters for additional instruments on this tray setup that are not included in this chapter.