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CANINE DENTAL TECHNICIAN MODEL

Care, Handling, and Maintenance

Components:

- Canine head
- Dentary
- Maxilla
- Removable tongue
- Clamp assembly
- Adjustable/lockable arm.
- Replaceable components – tongue, maxilla, dentary, clamps, adjustable arm.
- Optional components- sturdy hard composite storage case, clear resin maxilla and dentary sets with visible tooth roots.

The canine dental surgical model simulator comes fully assembled including one (1) replaceable maxilla, (1) replaceable dentary, replaceable tongue and clamping system (adjustable arm, clamp)

Cleaning

The soft skin of the canine dental surgical model may feel somewhat oily, but this is normal for soft silicones. All components both hard and soft should be periodically cleaned using a mild detergent and warm water. Never use harsh chemicals or cleaners. All internal soft components can be damaged by rough handling.

General maintenance

Periodically inspect the unit for damaged components. If any of the soft components become damaged they can be repaired with any aquarium grade silicone adhesive (preferably clear). If they are not repairable, new ones are available from VSI Ltd. Any damaged components can be ordered from VSI Ltd. The canine dental surgical model comes properly assembled. It is best to observe the orientation and position of all the components to familiarize yourself with them and to ease the correct replacement of consumable or damaged components.

Maxilla removal

Gently roll the nose of the model in a caudal direction by grasping the upper lips on either side of the nose until it releases the mounting tab of the maxilla from the underside of the nose. The nose and lips will stay in an inside-out position. Do not force the nose caudally any farther than the point where the mounting plate is exposed or damage to the model will result. Remove the maxilla from the head by pulling it a rostral direction until it is free of the two mounting rails.

Do not leave the nose rolled back for an extended period of time as this may cause deformation of the silicone rubber head.

Maxilla installation

Gently roll the nose of the model in a caudal direction by grasping the upper lips on either side of the nose until the maxilla mounting surface and mounting rails are exposed. Using thumb and index finger, gently spread the upper lips apart to provide clearance for the maxilla. Line up the mounting rails on the head with the corresponding slots on the maxilla and slide the maxilla into position by gently pushing it in a caudal direction until it stops. Watch for pinching of the inner lip during this process, as tearing may occur. Finally roll the nose forward (rostrally) and gently stretch the nose/skin forward to allow the maxilla mounting tab to seat in its corresponding pocket within the skin of the nose. A small amount of a petroleum jelly lubricant will ease the installation.

Dentary removal

First remove the tongue by gently pulling it in a dorsal direction to release it from its rubber mounting posts. The dentary can be removed without removal of the tongue, but replacing the lower dentary is simplified in doing so. Pull the distal portion of the lower lip in a ventral direction to release it from the dentary mounting flange. To remove the dentary, invert the head and grasp the cranium while cradling the model. The dentary can then be removed by grasping and pulling it in a rostral direction until it is free of its two stainless steel mounting pins. Some side to side movement may be required.

Dentary installation

A small amount of a petroleum jelly will ease the installation of the dentary. Line up the two stainless steel mounting pins with the corresponding holes in the dentary. Push up on the supra hyoid ventrally while sliding the dentary onto the two pins in a caudal direction until it stops. Check that the tongue mount is sitting comfortably inside the dentary. Gently pull the distal portion of the lower lip forward (rostral direction) and dorsally to seat the lower lip onto the dentary mounting flange. To install the tongue, locate the three flexible rubber mounting posts within the center lower section of the mouth and align them with the corresponding holes in the base of the tongue. Once aligned, press the tongue in a ventral direction until the tongue is secure on the mount spheres.

Installation of clamp and arm

Locate the threaded insert on caudal end of canine head.
Thread one end of the adjustable arm into the threaded insert.
The other end of the arm threads into the clamp. For more specific information regarding the clamp, please refer to the manufacturer's instructions included with the clamp. Affix the clamp to the work surface. Position the head by moving the head and adjustable arm. Once in the desired position, lock the arm by tightening the center knob. This locks all movement of the arm. Do not overtighten as this can damage the arm.

Functions, Structure, and Dental Procedures

The following anatomical features are represented in the canine dental model:

- Head with accurate weight and flexible skin
- Flexible gingiva and alveolar mucosal layer
- Bone material, accurately shaped skeleton
- Tongue

The following dental procedures can be demonstrated:

Scaling/Probing and Charting/Polishing (marked blue)

- Probing of the sulcus
- Superficial mental and mental, mandibular block, maxillary, and infraorbital blocks
- Laryngopharynx component for practicing intubation techniques
- Artificial calculus for reapplication included

Radiology set (marked green)

- Practice radiograph techniques
- Periodontal ligament included in radiology set

Please contact Veterinary Simulator Industries Ltd. for specific repair instructions or any concerns or inquiries.

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