

---

# Demonstration 5

## TransForce Transverse Appliance

Intermediate Course

Dr. Brad Williams  
WILLIAMS *GP* ORTHODONTIC  
SEMINARS

# TransForce Transverse Appliance

**Purpose:**

- To attain lateral arch development
- To attain sagittal arch development
- To minimize or eliminate Phase II

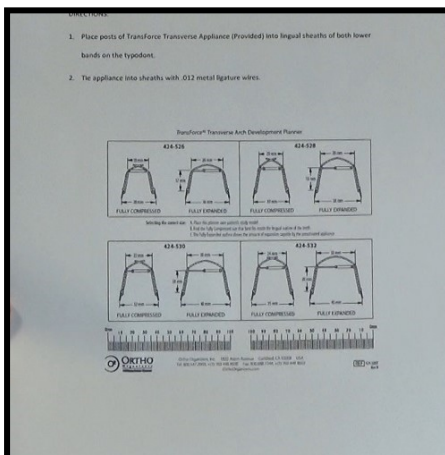
**Instruments & Materials Needed (Prior to Start of Class):**

- Band Pusher/Scaler
- Boley Gauge
- Hollow Chop
- Light Wire Plier (Long Bird Beak)
- Mathieu Plier– Hook Tip & Wide Tip
- Pin and Ligature Cutter
- Three Prong Plier
- Weingardt Plier

**Materials Provided:**

- TransForce Transverse Appliance
- 1/4" Light Elastics
- .012 Long Ligature Wires
- Glide Ties

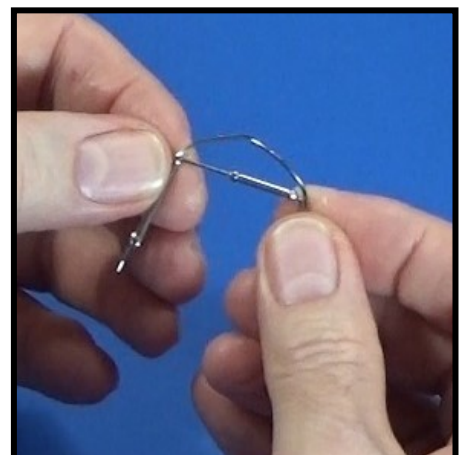
**Directions:**



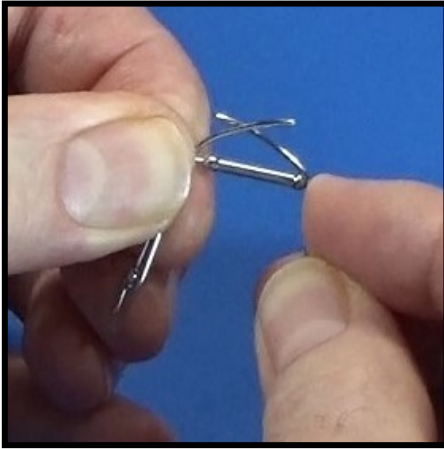
Refer to this form in the notebook for sizing information.



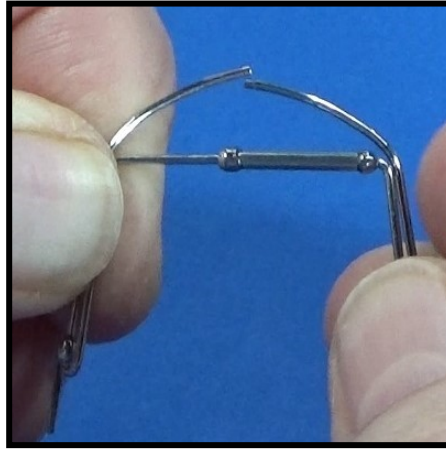
Use a Boley Gauge to help measure from the mesial of the 1st molar to the middle of the canine.



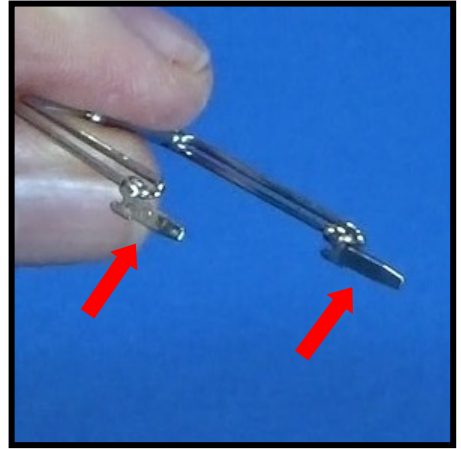
TransForce Transverse Appliance.



Transverse TransForce Compressed - Activated.



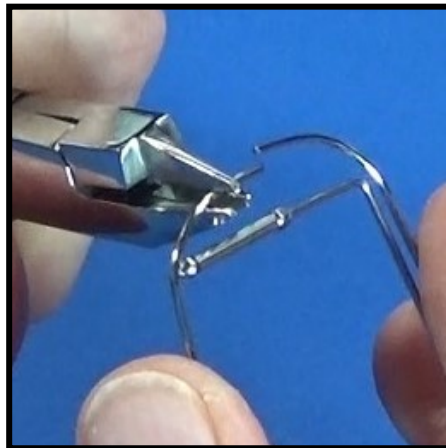
Transverse Trans Force Opened



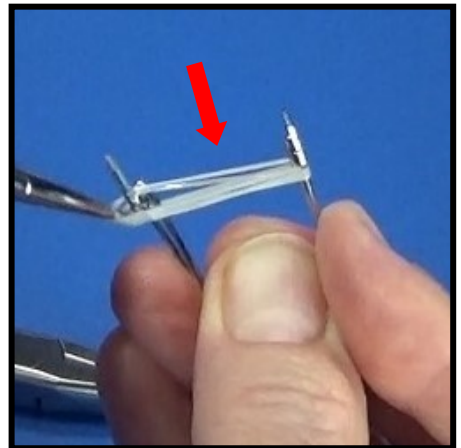
Distal tabs or 'tongues' that insert into the lingual sheaths on the 1st molar bands.



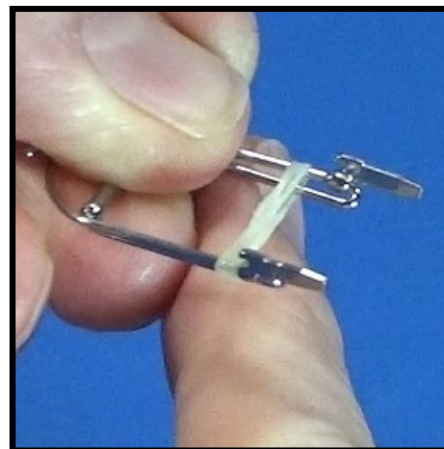
Make adjustments as needed to the arms on the anterior portion. This can be done using a Hollow Chop Plier.



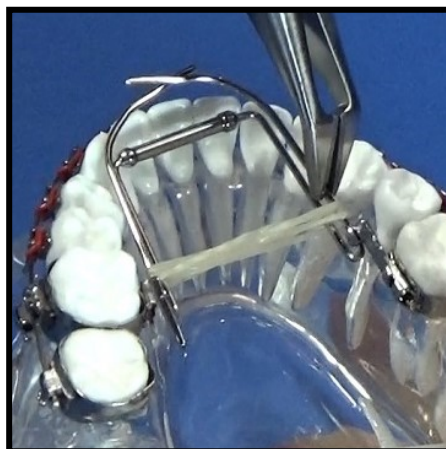
Adjustments can also be made using a Three Prong Plier.



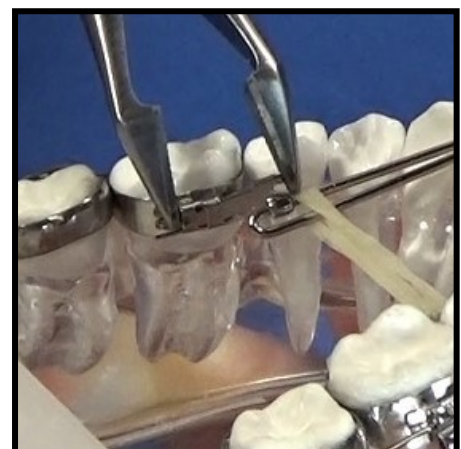
Prior to inserting the appliance place 2-3 elastics on the distal portion (not on the tabs).



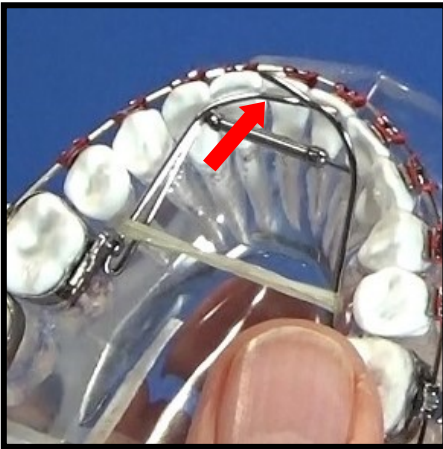
This will 'deactivate' it and make it easier to insert the appliance.



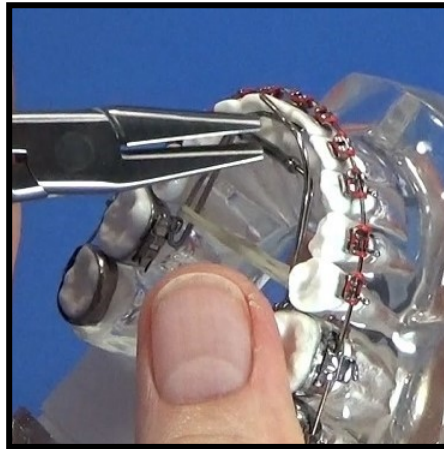
Use the Weingardt Plier to insert the 'tongues' into the lingual sheaths of the 1st molar bands.



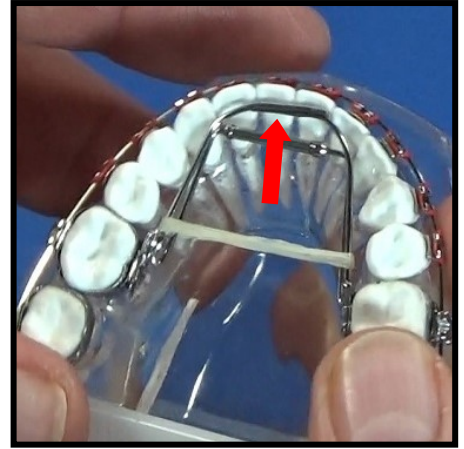
Place the Weingardt Plier on the tab and distal of the sheath and squeeze. This will help fully seat the appliance.



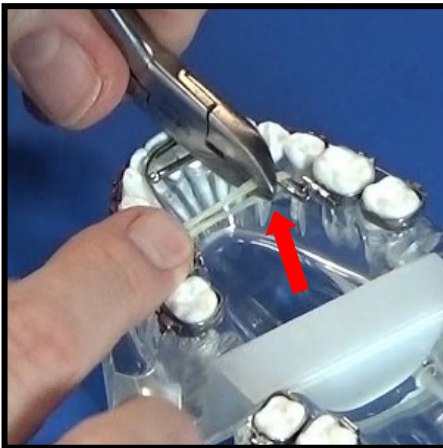
Appliance is now seated properly. Some adjustments still need to be made to the arms.



Adjustments can still be made intraorally, if needed.



Anterior portion is adjusted and is flush against the teeth for patient comfort.



Use a Pin & Ligature Cutter to remove the elastics. This will activate the appliance.



Make sure the appliance is fully seated prior to tying it in. It is fully seated if the appliance sticks out distally.



Secure the appliance using a .012 Long Ligature. Catch the distal tongue and the mesial tab and twist.



Clip and tuck the appliance for patient comfort.



A glide tie can also be used to tie the appliance in.



Once desired expansion has been reached, tightly crimp the anterior sleeve to 'deactivate' and maintain. Completed Exercise.

## Virtually Invisible Assistance for Arch Development

Designed for ease of use, the *TransForce*<sup>2</sup> Arch Developer Appliances are preprogrammed to allow appliances to be placed without laboratory work. Both the Transverse and Sagittal styles may be placed using first molar bands with standard .036 x .072 lingual sheaths.

Each *TransForce*<sup>2</sup> Arch Developer Appliance may be easily adjusted per patient. In addition, each expander module contains *Nitanium* Coil Springs generating approximately 200 grams of gentle biocompatible force.

### *TransForce*<sup>2</sup> Transverse Arch Developer





The Transverse Appliance has an expansion module to increase the inter-canine width (expands at the cuspids) and may be used in the upper or lower arch when expansion is required to accommodate crowding in the labial segments, or to correct arch width in constricted arches.








### *TransForce*<sup>2</sup> Sagittal Arch Developer

The Sagittal Appliance is specifically designed for anterior arch development (creates space by advancing the 3x3 labially) and is often indicated for simultaneous use in both arches.

The appliance operates on the slide principle and may be used unilaterally or bilaterally to extend arch length.

The Transverse and Sagittal Appliances are available in multiple sizes, individually or a starter assortment kit. Best of all, the developers are universal, which allows for less inventory as they can be used for either upper or lower arch development.

CATALOG NUMBER	COLOR-CODE	TRANSVERSE SIZE				MAXIMUM AMOUNT OF INTER-CANINE EXPANSION
		FULLY COMPRESSED		FULLY EXPANDED		
		INTER-CANINE	INTER-MOLAR WIDTH	INTER-CANINE	INTER-MOLAR WIDTH	
424-526	 Red	18 mm	27 mm	26 mm	36 mm	8 mm
424-528	 Green	20 mm	30 mm	28 mm	38 mm	8 mm
424-530	 Purple	22 mm	32 mm	30 mm	40 mm	8 mm
424-532	 Pink	24 mm	35 mm	32 mm	43 mm	8 mm

CATALOG NUMBER	COLOR-CODE	SAGITTAL SIZE				MAXIMUM AMOUNT OF ANTERIOR-POSTERIOR EXPANSION
		FULLY COMPRESSED		FULLY EXPANDED		
		ANTERIOR-POSTERIOR	INTER-MOLAR WIDTH	ANTERIOR-POSTERIOR	INTER-MOLAR WIDTH	
424-728	 Green	24 mm	29 mm	28 mm	30 mm	4 mm
424-730	 Purple	26 mm	29 mm	30 mm	31 mm	4 mm
424-732	 Pink	28 mm	30 mm	32 mm	31 mm	4 mm
424-734	 Blue	30 mm	30 mm	34 mm	32 mm	4 mm
424-736	 Black	30 mm	34 mm	36 mm	36 mm	6 mm
424-738	 Yellow	32 mm	35 mm	38 mm	37 mm	6 mm
424-740	 White	34 mm	35 mm	40 mm	38 mm	6 mm