

# Upper Schwarz with cross over wires



**Cross over wires and Lap springs can be added to nearly every fixed or removable appliance!**

This variation of the popular Schwarz design includes a cross over wire which when engaged provides a gentle pulling action against the distal aspect of the anterior. As the arch develops transversely, the cross over wires provide enough force to correct a mid line crossbite. An ideal form labial bow is added to prevent the cross over wires from moving the anteriors to far labially, and prevent rotations.



In this case, as the appliance expands, the crossover wire will gently pull the anterior teeth toward the left correcting the crossbite! Cut the wire off lingually and the crossover wires become lap springs!

Lap springs when activated provide a gentle sweeping action against the lingual aspect of the upper anteriors. As the arch develops transversely, the lap springs provide enough force to move the anterior teeth into alignment. An ideal form labial bow is added to prevent the lap springs from moving the anteriors to far labially.



This Five Star Fixed Expander has been designed with lap

To activate the lap springs simply use your Jarabak plier to bend the wires anteriorly at the base of the acrylic and lap spring. The activation should be no more than 1 mm to prevent the appliance from wanting to "jump" out of the mouth. Individual tooth movement can be achieved by placing bends on areas of the lap springs where correction is desired. This should be done at each appointment until the desired corrections have occurred.



**ORTHODONTICS**

Five Star Orthodontic  
Laboratory & Supply

P.O. Box 888  
Denton, TX 76202-0880  
Tele: 940-898-1400 or  
1-800-521-2351  
Fax: 940-898-1400