



# Multi F<sub>unction</sub> A<sub>pp</sub>liance

The new generation



# Multi FA C<sub>lear</sub>



## Multi **F**unction **A**ppliance

The new generation



Space opening

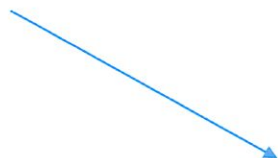
Space closure



CL II / CL III correction



Differential or segmental  
Distalization / Mesialization



***Multi Segmental  
approach***



1 Bond the posterior attachment

Fig 1

Monitor molar rotation

Molar correct angulation

Lock the joint

2 Slide the anterior attachment to the desired tooth level

Fig 2+ 2A

Canine / premolar in good angulation  
**Prevent rotation**

Position Centric / distal to centric

Fig 3A

Lock the joint

Fig 3B

Canine / premolar mesio-lingual rotation  
**Rotation is required**

Fig 4

Position Centric \ mesial to centric

Do not lock the joint

Rotation corrected

Lock the joint

Telescope locking

Fig 5

Canine in contact with premolar

Lock the telescope

Canine in high position

Canine in distance from premolar

Fig 6

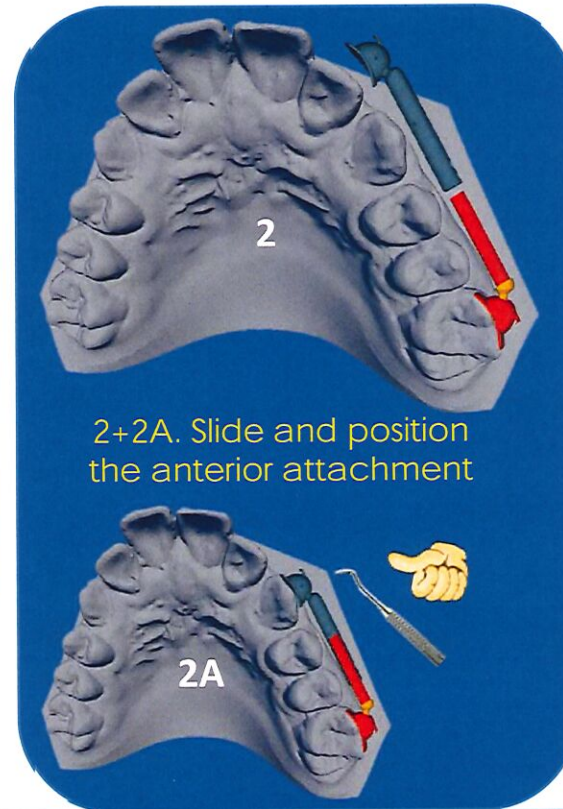
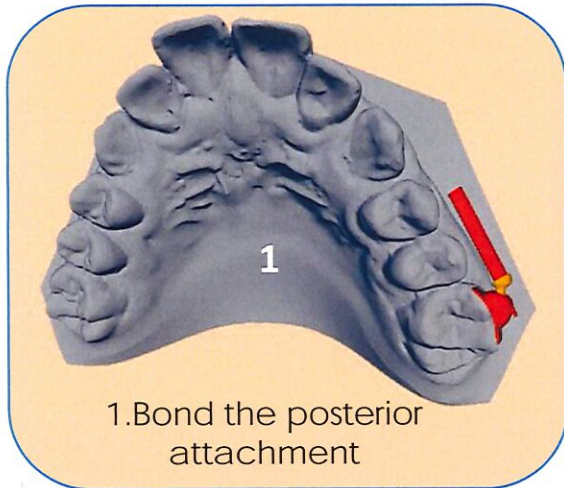
Do not lock the telescope

Use MULTI long

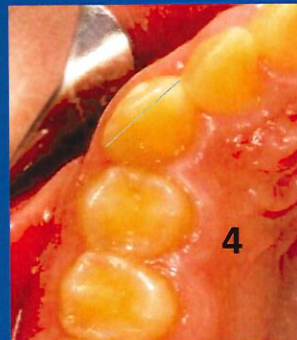
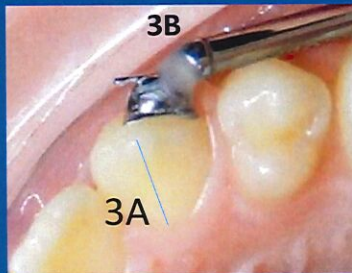
Canine in contact with the premolar

Lock the telescope





Canine / Premolar rotation prevention  
 3A distal positioning  
 3B joint locking  
 (GC Ortho connect flow)



4. Canine Premolar rotation is required



5. Telescope locking

6. Unlocked telescope for canine 1<sup>st</sup> movement  
 Differential distalization



# The multi segmental approach

## The combination of multiple steps

Efficiency, control

*Segment 1*

*CL II – High Canine Differential activation*

*Segment 2*

*CL II + Space deficiency*

*Segment 3*

*CL II + Space deficiency + rotation correction*



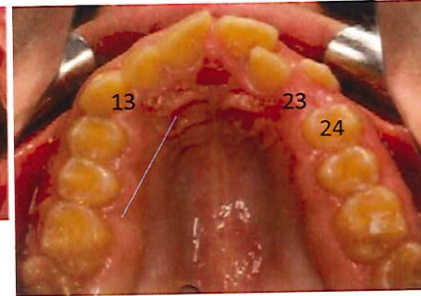
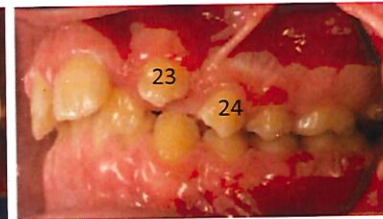
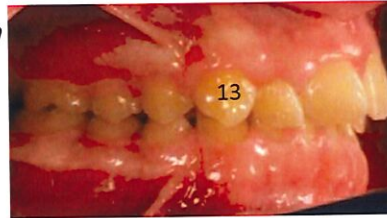
## Multi Segmental approach

### Segment 1 CL II – High Canine Differential activation

Bond canine-1<sup>st</sup> molar both sides  
Correct the CL II

13 Lock the telescope  
Do not lock 13 joint to allow  
rotation correction

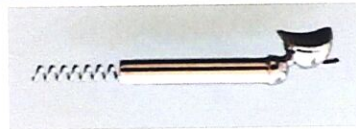
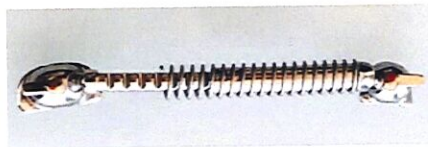
23 – Lock the canine joint  
Do not lock the telescope  
until canine is descended & in contact  
with 24 ➡ Lock the telescope



### Segment 2 CL II + Space deficiency

Bond canine-1<sup>st</sup> molar both sides  
Correct the CL II

Use the outer / inner open coil for space opening  
Do not lock the telescope

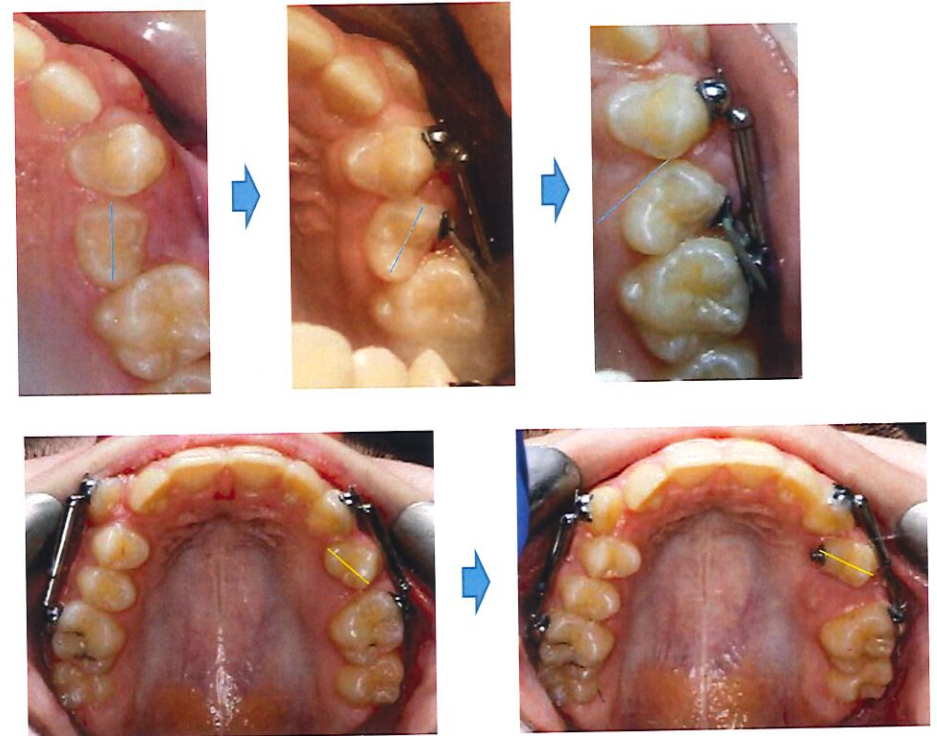


## Multi Segmental approach

### Segment 3 CL II + Space deficiency + rotation correction

Bond canine-1<sup>st</sup> molar both sides  
Correct the CL II

Use the outer / inner open coil for space opening  
Use elastic chain for derotation  
Do not lock the telescope





## Multi Segmental approach

Segment 4 | CL II/III + segmental anterior - crowding

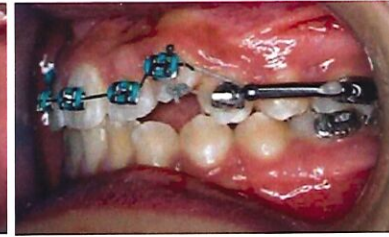
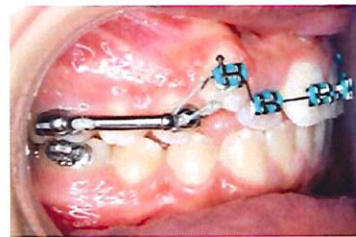
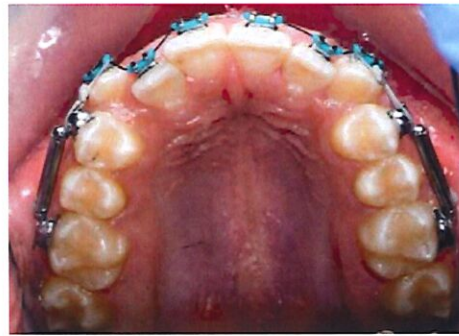
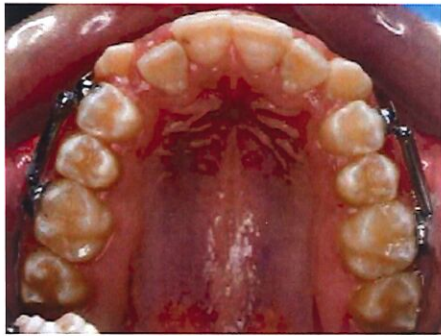
Bond canine-1<sup>st</sup> molar both sides  
Correct the CL II/III



Place anterior brackets as soon  
as spaces start to open



Start leveling alignment of the anterior segment.  
Connect with passive ligation to the Multi appliance



Wire progression maintain passive ligation to the Multi appliance until the anterior segment leveling and alignment is complete.  
Ligate the anterior segment to prevent space opening  
Maintain passive ligation to the Multi appliance CL I is achieved  
Remove the Multi appliance and complete the brackets bonding

Self ligating brackets are more recommended  
After Multi appliance is removed – dual arch brackets placement is recommended  
CL II/III elastics night time must be used to maintain the CL II / III correction



## *Multi Segmental approach*

*Segment 5*

*CL II/III + segmental anterior no crowding*

Bond canine-1<sup>st</sup> molar both sides  
Correct the CL II/III



Place anterior brackets  
+ Ligate anterior segment



Connect with passive ligation to the Multi appliance

Wire progression

Maintain anterior ligation + passive ligation to the Multi appliance until CL I is achieved

Remove the Multi appliance and complete the brackets bonding

Self ligating brackets are more recommended

After Multi appliance is removed – dual arch brackets placement is recommended

CL II/III elastics night time must be used to maintain the CL II / III correction

## Multi Segmental approach

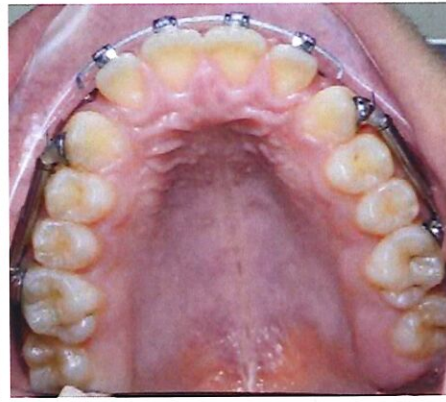
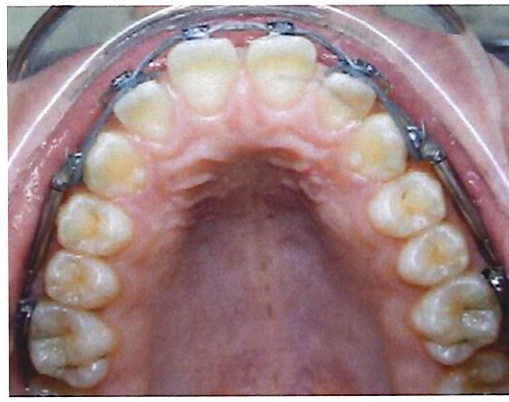
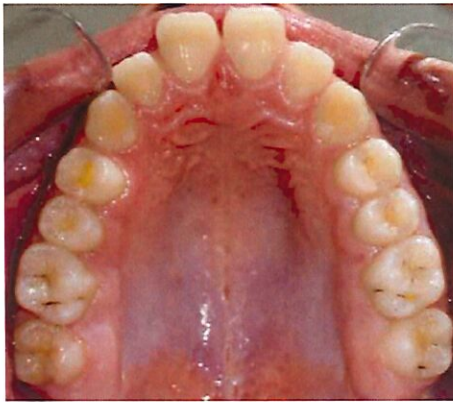
### Segment 6

CL II/III + segmental anterior + spaces

Bond canine-1<sup>st</sup> molar both sides  
Correct the CL II/III

Place anterior brackets  
+ Place low force elastic chain

+ Connect with passive ligation to the Multi appliance



Wire progression.

Maintain anterior chain + passive ligation to the Multi appliance until spaces are closed.

➡ Anterior segment spaces are closed ➡ Place passive ligation to the anterior segment

Keep anterior passive ligation and to the Multi appliance until CL I is achieved

As CL I is achieved remove the Multi appliance and complete the brackets bonding

Self ligating brackets are more recommended

After Multi appliance is removed – dual arch brackets placement is recommended

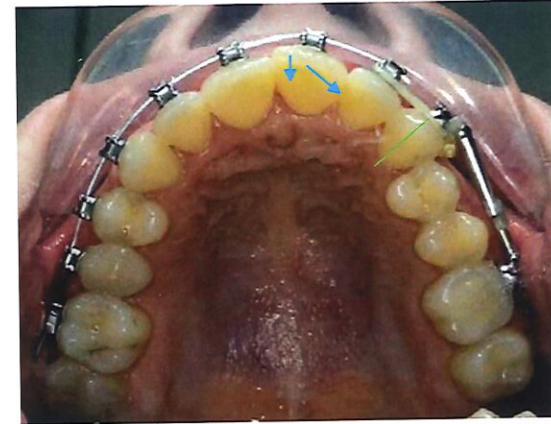
CL II/III elastics night time must be used to maintain the CL II / III correction



## Multi Segmental approach

Segment 7

Asymmetrical CL II



Bond canine-1<sup>st</sup> molar on CL II side  
+ Place segmental brackets on all other teeth

Use differential CL II elastics to correct the CL II and maintain the CL I

+ Connect with passive ligation to the Multi appliance

Wire progression

Maintain anterior ligation + passive ligation to the Multi appliance until CL I is achieved

Remove the Multi appliance and complete the brackets bonding

Self ligating brackets are more recommended

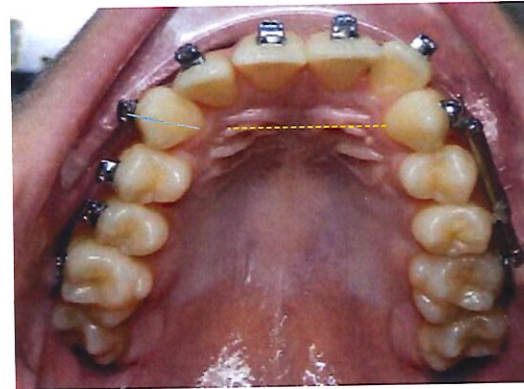
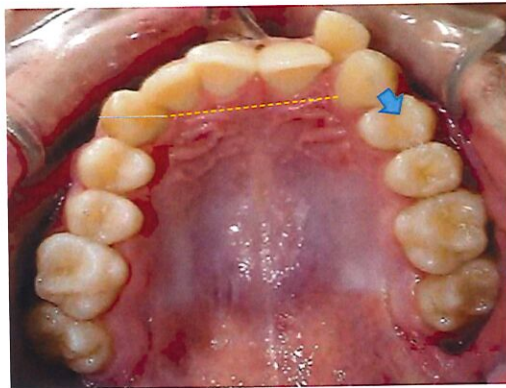
After Multi appliance is removed – dual arch brackets placement is recommended

CL II/III elastics night time must be used to maintain the CL II / III correction

## Multi Segmental approach

Segment 8

Asymmetrical CL II/ div 2



Bond canine-1<sup>st</sup> molar on CL II side

+ Place segmental brackets on all other teeth



Use differential CL II elastics to correct the CL II and maintain the CL I



Connect with passive ligation to the Multi appliance

Wire progression...

Maintain anterior ligation + passive ligation to the Multi appliance until CL I is achieved

Remove the Multi appliance and complete the brackets bonding

Self ligating brackets are more recommended

After Multi appliance is removed – dual arch brackets placement is recommended

CL II/III elastics night time must be used to maintain the CL II / III correction



## *Multi Segmental approach*

*Segment 9*

*Upper extractions*

Bond canine-1<sup>st</sup> molar on CL II side/s  
+ Place segmental brackets on anterior teeth  
Do **NOT** lock the telescope

Use CL II elastics to Distalize & close  
extraction spaces

Anterior crowding / no crowding...  
Please refer to relevant segment (4-6)

Connect with passive ligation  
to the Multi appliance

Wire progression...  
Maintain anterior ligation + passive ligation to the Multi appliance until CL I is achieved  
Remove the Multi appliance and complete the brackets bonding

Self ligating brackets are more recommended  
After Multi appliance is removed – dual arch brackets placement is recommended  
CL II/III elastics night time must be used to maintain the CL II / III correction