

**dobson**ortho.com

# Printed Metal Delivery Protocol

We offer appliances using Selective Laser Sintering (SLS) technology. This translates into better fitting appliances and no need to place separators before scanning the patient for their digital impressions.

 **dobson**ortho  
LABORATORY  
Orthodontics is in our DNA™



## PRINTED / SINTERED METALS GUIDE

### ACRYLIC & WELDABLE OPTIONS

If years of experience have taught us anything, it is that we always want to give our customers the best quality possible with the appliances we carefully fabricate. This is exactly why we chose to offer a wide variety of German-made expansion screws as a standard with our appliance offerings. The German-precision of these screws provide the benefits of both streamlined aesthetics and precision function in the devices produced by Dobson Ortho Laboratory.

This guide is intended to be a reference guide to the clinical application of Printed Metal Appliances as well as the expansion screws that we offer that are used in both removable acrylic and fixed expansion devices. Product offerings are subject to change without notice.

WE PROUDLY USE EXPANSION SCREWS FROM:





## LASER WELDING CAPABILITIES

### ORION™ MODEL LZR BENCHTOP

One of the first investments into printed metals (also referred to as sintered appliances) was purchasing our first laser welder. We opted to go with Orion's Benchtop unit and we got one with plenty of power so that we could weld anything that was needed for a quality orthodontic appliance.

Laser welding has been proven to offer stronger welds than traditional solder, which is why we switched all of our retainer soldering over to laser welding with great success. Now we are launching into the printed metals market in which we will be offering solder-free expanders, TPA, Lingual Arches, and Nance Buttons to our customers.

## DELIVERING PRINTED METAL APPLIANCE PROTOCOL

### RECOMMENDED MATERIALS

Reliance Orthodontic Products has been one of the most trusted names in our industry, which is exactly why we recommend their products as part of this bonding protocol. You are free to use whatever you feel most comfortable with, but this protocol is based on the use of the following materials from Reliance:



**Blue Gel Etch**  
#BEGS



**Bristle Brush**  
#BB250



**Mixing Wells**  
#MXW



**Assure Plus**  
#PLUS



**Self Mix Band Lok**  
#SMBLB



Reliance Orthodontic Products  
1540 West Thorndale Avenue  
Itasca, IL 60143

RelianceOrthodontics.com  
800-323-4348

## STEP 1

Prophy rinse and dry the Buccal and Lingual surfaces of involved teeth.

Apply BLUE GEL ETCH to the full Buccal and Lingual surfaces of involved teeth -- DO NOT etch the entire occlusal. After about 30 seconds, suction visible etch from tooth and irrigate thoroughly for about 10 seconds per tooth. Desiccate teeth.





## STEP 2

Apply 1 coat of ASSURE PLUS to entire Buccal surface and Buccal cusp tips of tooth ONLY.

DO NOT apply to Occlusal or Lingual.

Air dry for at least 3 seconds.



### STEP 3

Apply an even layer of SELF MIX BAND LOK to tooth side of appliance as the teeth are being primed with ASSURE PLUS. BAND LOK has a 4-minute working time, so do not preload appliance until ready to deliver chairside.

Seat appliance to express flash.



#### STEP 4

Tack cure flash for 1 second ONLY -- this will make all the flash cohesive and allow for single piece removal.

Finish curing from Occlusal opening for about 30 seconds per involved tooth. Remove isolation and instruct patient to wait for at least 5 minutes before activating appliance. BAND LOK is a dual cure and will always achieve polymerization.

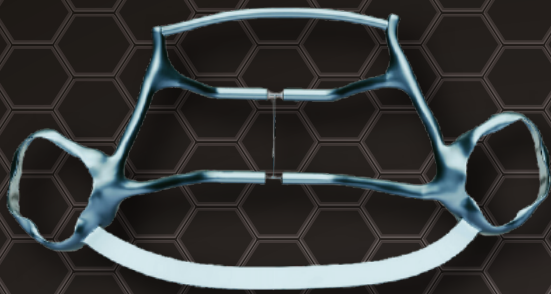




## REMOVAL

With traditional band removal pliers, break appliance from tooth on Buccal side to promote cement separation -- BAND LOK bonds chemically to metal -- the majority, if not all, of the cement should remove with the appliance.





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