

## PDS MOUNTING INSTRUCTIONS

**THANK YOU TO CHOOSE A LAINER SUSPENSION PRODUCT.**

EVERY PART THAT YOU BOUGHT HAS TO BE MOUNTED BY A PROFESSIONAL SUSPENSION TECHNICIAN.

### **PROGRESSIVE DAMPING SYSTEM FRONT FORK FUNCTIONS**

THIS KIT WILL IMPROVE THE PERFORMANCE OF YOUR FRONT FORK INCREASING THE RESISTANCE OF THE FORK BOTTOMING, ALSO WORKING AS AN ANTI DIVE ON THE FIRST/MIDDLE PART OF THE TRAVEL.

### **THE DEVICE FEATURES ARE DESCRIBED AS FOLLOWING:**

#### **FUNCTIONS OF THE PLASTIC RING:**

THE PLASTIC RING (BLACK OR WHITE) ON THE BOTTOM OF THE DEVICE ALLOWS THE TUNER TO CHOOSE DIFFERENT POSITION OF STIFFNESS.

ON THE LOWER POSITION IT WILL BE THE SOFTER ONE, ON THE MIDDLE POSITION IT WILL BE THE MEDIUM ONE AND THE UPPER POSITION IS THE STIFFER ONE.

THE PLASTIC RING AS TO BE MOUNTED WITH THE SEAT TOWARD THE BOTTOM OF THE DEVICE ALLOWING THE OIL TO PASS THROUGH THE SLOT ON THE RETURN PHASE.

#### **OPTIONS ON THE PLASTIC RING POSITION:**

-THE OPTIONS ON THE POSITION OF THE PLASTIC RING ARE 5 SO IT CAN BE USED ALSO ON DIFFERENT POSITIONS BETWEEN THE 2 DEVICES ON THE 2 LEGS.

FOR EXAMPLE ON THE LOWER POSITION IN A LEG AND IN THE MIDDLE POSITION IN THE OTHER LEG.

THIS IS ALLOWS TO HAVE MORE SOLUTIONS ON THE FINAL TUNING FOR THE RIDER.

#### **NEW QUANTITY OIL LEVEL:**

-THIS DEVICE TAKES MORE VOLUME COMPARED THE STOCK SPRING SEAT, SO THE DIFFERENCE BETWEEN THE TWO PARTS IS 30 cc OF OIL FOR THE SHOWA MODEL AND 25 cc FOR THE KYB MODEL.

FOR EXAMPLE IF THE RIDER IS RUNNING AT 350 cc OF OIL, THE NEW OIL LEVEL WILL BE 320 cc ON A SHOWA FORKS AND 325 cc ON A KYB FORK.

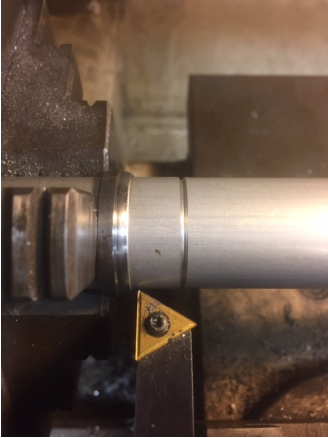
### **PDS SHOWA 49 MODEL**



### **PDS KYB MODEL WP 48 KYB SPRING CONVERSION MODEL**



## KYB FORKS MOUNTING TIPS



USE THE LATHE TO REMOVE THE STOCK STEEL PART THAT HOLDS THE SPRING PEARCH.

REMOVE ABOUT 1.50 mm OF MATERIAL ON THE TOP OF THE STOCK STEEL PART. (TOWARD THE BROWN PART OF THE CARTRIDGE)

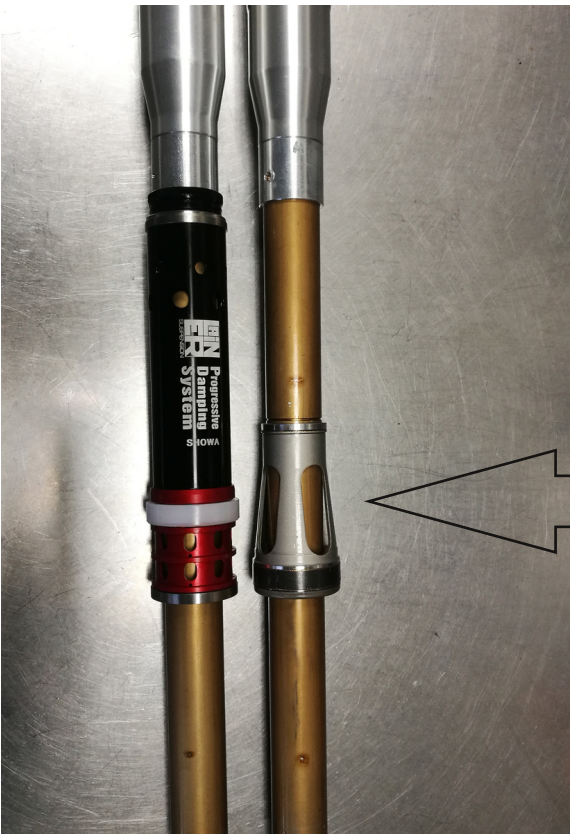
WHEN THE CIRCLE CLIP UNDERNEATH THE STEEL IS UNCOVERED, REMOVE BOTH PARTS FROM THE CARTRIDGE.



REMOVE THE CIRCLE CLIP ON THE BOTTOM OF THE CARTRIDGE AND REMOVE THE RING TO ALLOWES THE NEW **PDS DEVICE** TO PASS THROUGH THE TOP OF THE CARTRIDGE.

ONCE THE **PDS DEVICE** IT'S BEEN INSTALLED ON THE CARTRIDGE, YOU CAN MOUNT THE RING AND THE CIRCLE CLIP BACK ON THE ORIGINAL SEAT.

## SHOWA 49 FORKS MOUNTING TIPS



ON THE SHOWA CARTRIDGE IT'S EASIER AND FASTER!

REMOVE THE STOCK SPRING PEARCH, THE ALUMINUM CIRCLE CLIP SEAT, THE WASHER 1.00 mm THICK AND THE CIRCLE CLIP.

ONCE EVERYTHING IS REMOVED IT'S POSSIBLE TO INSTALL THE **PDS DEVICE**.

## MORE EXPLANATIONS ON THE PDS



ON THE TOP OF THE DEVICE YOU CAN FIND MANY GROOVES WHICH ALLOWS THE TUNER TO EASILY CHANGE THE SPRING PRELOAD AVOIDING TO DISMOUNT THE COMPLETE FORK.



THE BLACK RING IS AN ADAPTER THAT ALLOWS THE PDS TO BE MOUNTED ON THE KYB MODEL WITH 24.00 mm PISTON.

## PDS FOR KYB SPRING CONVERSION ON WP FORKS OR SOME CONDITIONS ON KYB/SHOWA TUBES



**EXAMPLE OF THE RING CUTTING WITH CUTTER**



**EXAMPLE OF THE RING ADAPTING WITH SANDPAPER**

FOR WP 48 mm FORK WITH KYB SPRING CONVERSION, THE PDS MODEL IS THE SAME AS KYB. YOU JUST NEED TO CUT OFF 1.00 mm ON THE PLASTIC RING TO BE ADAPTED TO THE CHROME SHAFT WHICH HAS A SMALLER ID.

DEPENDING ON THE SPRING LENGHT FROM THE FACTORY, IT MIGHT BE NEEDED A SPACER TO ADAPT THE LENGHT OF THE SPRING AND GET THE RIGHT PRELOAD.