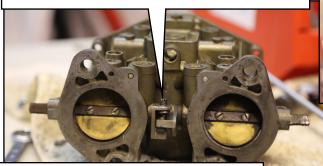
THE SOLEX 40 PII-4 IS A FANTASTIC CARBURETTOR, WHEN IT WORKS ... THE SOLEXES ON OUR 356'S AND 912'S HAVE SEEN A LOT OF WEAR AND TEAR OVER THE YEARS. THE BUTTERFLIES HAVE EATEN THEIR WAY INTO THE THROTTLE BORES BECAUSE OF EXCESSIVE PLAY ON THE THROTTLE SHAFTS. TIGHTENING DOWN THE CARB ON THE INTAKE MANIFOLD HAS CAUSED WARPAGE OF THE BORES. YOU CAN TURN THOSE ADJUSTMENT SCREWS ANYWAY YOU LIKE, YOU JUST WON'T BE ABLE TO GET A CORRECT IDLE SETTING DUE TO VACUUM LEAKS ALL OVER THE PLACE. "WHO IS SHOOTING AT ME? THAT'S JUST THE GUY WITH SOLEXES DRIVING BEHIND YOU."

356/912 Resto Strip

Split shaft Solex restoration, keep it original!



THE SPLIT SHAFT SOLEX USED ON THE LATER 912'S (G9') HAD AN ADJUSTMENT BLOCK IN BETWEEN TWO SEPARATE THROTTLE SHAFTS TO BE ABLE TO ADJUST THE BUTTERFLIES INDIVIDUALLY. THIS IS WHAT MAKES TIME TRAVEL POSSIBLE.*



THE STEEL SHAFT THAT ROTATES IN THE SOFTER ALUMINUM THROTTLE BODY DOESN'T JUST CAUSE EXCESSIVE PLAY ON THE PIVOT POINTS BUT IN TURN ALSO CAUSES THE BUTTERFLIES TO RIDE IN THE THROTTLE BORE. THE ONLY SOLUTION IS TO MILL THE BORE TO AN OVERSIZED DIAMETER AND TO FIT OVERSIZED BUTTERFLIES.



AN EXAMPLE OF AIR LEAKAGE DUE TO WEAR. THESE BUTTERFLIES ARE IN THE FULLY CLOSED POSITION!

THE MATING SUFRACES OF THE TOP OF THE CARB AND THE FLANGES THAT CONNECT TO THE INTAKE MANIFOLD ARE PRONE TO WARPAGE WHEN LOOSENING AND TIGHTENING. THE DIFFERENCE BETWEEN THE LOWEST POINT OF THE FLANGE AND THE HIGHEST POINT WAS ALMOST 0,5MM. THESE SURFACES WILL BE MADE FLAT AGAIN TO ENSURE FUEL AND AIR LEAKAGE DOES NOT OCCUR.



LEAKAGE DOES NOT OCCUR. THE PREVIOUS MECHANIC HAD ALREADY INSTALLED BRONZE BUSHINGS IN THE PIVOT POINTS. SADLY THESE WERE ALSO WORN. NEW



*MAYBE NOT TIME TRAVEL, BUT THE ADJUSTMENT MAKES IT POSSIBLE TO ACHIEVE 100% AIR FLOW SYNCHRONICITY BETWEEN THE TWO THROTTLE BORES.

JORIS SCHWEITZER



AFTER TAKING THE CARBS APART THEY ARE ULTRASONICALLY CLEANED AND TUMBLED IN CERAMIC MEDIA.

TUN

UP.TESTE

THE NEW SHAFTS I ORDERED HAD A DIAMETER OF 7,957MM. A DIAMETER OF 8MM WOULD HAVE BEEN EASIER TO WORK WITH WHEN MAKING THE BUSHINGS BUT I GUESS I'LL HAVE TO PUT A LITTLE MORE EFFORT IN ON THE LATHE ;).





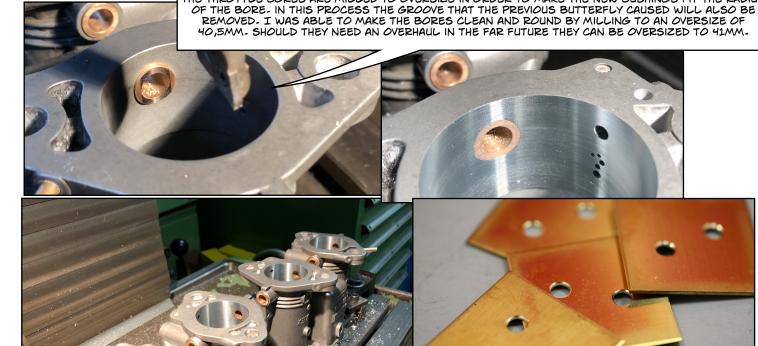
NEW BUSHINGS ARE TURNED OUT OF BRONZE ON THE LATHE. FOR THE OUTSIDE DIAMETER I WAS DEPENDENT ON THE PREVIOUSLY USED BUSHINGS. FOR THE INSIDE DIAMETER A REAMER OF 7,96MM IS USED.



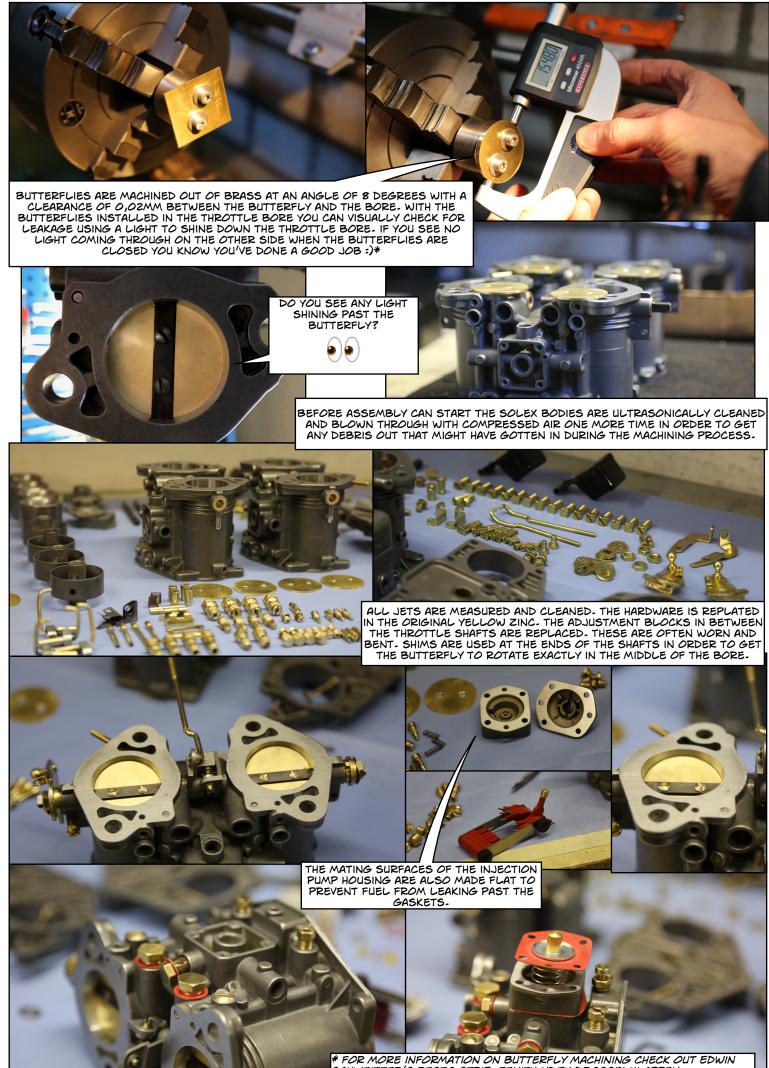
THE BUSHINGS ARE GLUED IN THE PIVOT POINTS USING LOCTITE GO3. DURING THIS STEP THE SHAFTS ARE FITTED TO ENSURE CORRECT ALIGNMENT.

THE THROTTLE BORES ARE MILLED TO OVERSIZE IN ORDER TO MAKE THE NEW BUSHINGS FIT THE RADIUS

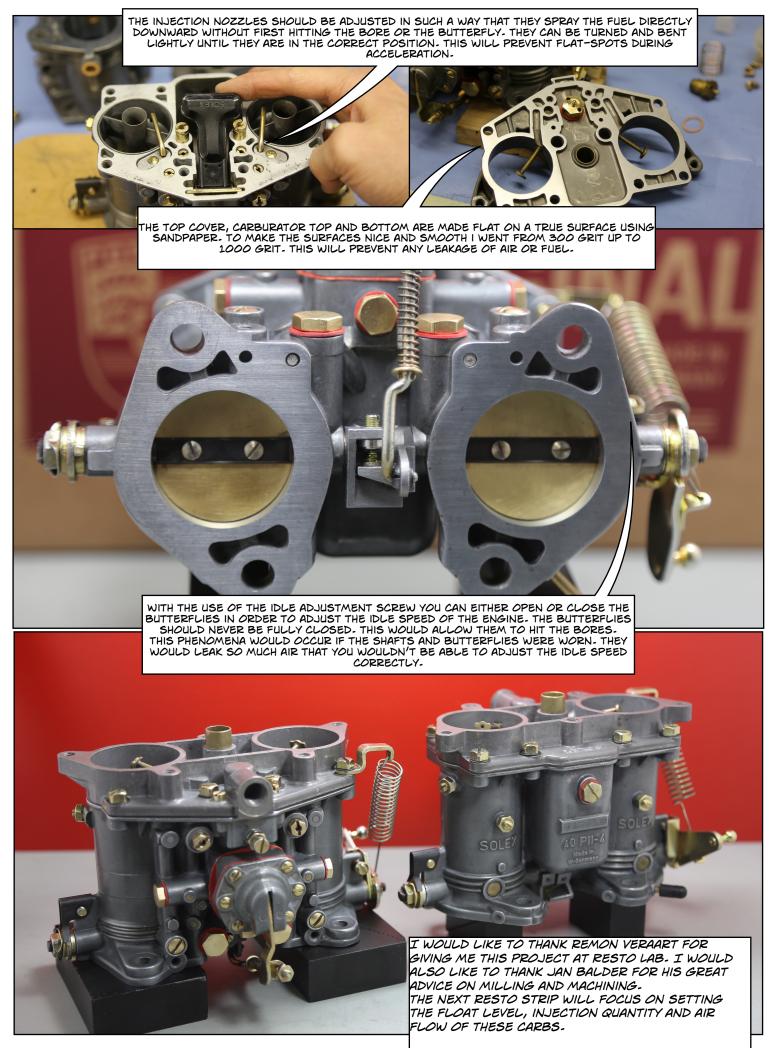




NEXT STEP: BUTTERFLY PRODUCTION :)



SCHWEITZER'S RESTO STRIP: ZENITH NDIX DROSSELKLAPPEN.



JORIS SCHWEITZER © RESTO STRIPS™ IS PART OF RESTO LAB™ FOR MORE RESTORATION GOODNESS CHECK OUT WWW-RESTOLAB-NL