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INSTALL INSTRUCTIONS FOR TRUE DUAL EXHAUST  
W/STRAIGHT PIPES (JOHNNY PIPES) OR MUFFLERS

1. REMOVE O.E.M EXHAUST SYSTEM. YOU WILL NEED TO RETAIN YOUR OEM FLANGES AND SNAP RINGS, AND ALSO THE RIGHT SIDE EXHAUST PORT HEAT SHIELD.
2. ASSEMBLE ALL THE TOOLS NECESSARY FOR INSTALL. YOU WILL NEED TO DRILL AND TAP THE LEFT SIDE OF THE CHASSIS FOR THE EXHAUST BRACKET. TOOLS REQUIRED: 3/8-16 TAP, 5/16 DRILL (CARBIDE PREF), 3/16 ALLEN DRIVE, 5/16 ALLEN DRIVE, 7/32 ALLEN DRIVE, 1/2 COMBO WRENCH, 9/16 COMBO WRENCH, 3/8 RATCHET, 1/4 RATCHET, 6" 1/4 DRIVE EXTENSION, AND A 1/2 SHALLOW THIN WALL 1/4 DRIVE SOCKET, AND 1/2 DEEP THIN WALL 1/4 DRIVE SOCKET. (THE SOCKETS ARE USED FOR THE REAR CYLINDER EXHAUST PORT NUTS)
3. INSPECT ALL THE TOMAHAWK DUAL EXHAUST COMPONENTS, ONCE COMPLETE BEGIN INSTALLING (AKA: HANG THE BOOTY ON THE SCOOT)
4. BEGIN WITH THE REAR CYLINDER. MAKE SURE THE EXHAUST STUDS ARE IN GOOD CONDITION, ALONG WITH THE NUTS. NEXT INSTALL THE OEM FLANGES AND SNAP RINGS ON THE 180\* REAR CYLINDER HEADER.NEXT REMOVE THE SHIFT ROD. NEXT INSTALL THE 180\* HEADER PIPE INTO THE EXHAUST PORT. 1/4 DRIVES 1/2 SHALLOW SOCKET THIN WALL WITH THE 6" 1/4 DRIVE EXTENSION SHOULD BE USED TO START THE NUTS. LEAVE THE HEADER NUTS ONLY HAND TIGHT TO ALLOW FOR ALIGNMENT OF SECOND PIPE. THE FRAME IN THIS AREA AROUND THE REAR CYLINDER OF THE BIKE MAY VARY. THERE WILL BE SOME MARGIN OF ADJUSTMENT BUT IT MAY NOT BE CONSISTENT WITH ALL BIKES.
5. NEXT INSTALL THE CLUTCH HEADER PIPE (YOU CAN IDENTIFY IT BY THE 2.0" SLEEVE). THIS PIPE WILL SLIDE ONTO THE 180\* REAR CYLINDER HEADER PIPE. ALIGN THE BOLT SLEEVES AND INSERT 5/16-18 STAINLESS BUTTON HEADS WITH .480 HEAD DIAMETER INTO THE SLEEVES AND INSTALL THE NUTS, ONCE AGAIN FINGER TIGHT.
6. NEXT INSTALL RIGHT SIDE HEADER PIPE. INSTALL YOUR OEM HEADER FLANGE AND SNAP RING ONTO THE PIPE AND INSTALL INTO HEADER PORT. CHECK ALIGNMENT OF MID MOUNT WITH OEM HEADER MOUNT ON TRANSMISSION ADJUST IF NECESSARY.

7. NEXT FIND THE GLOSS BLACK POWDER COATED EXHAUST MOUNTS. RIGHT SIDE WILL BOLT INTO THE EXISTING THREADED HOLES (BOLTS SLEEVES FOR MOUNTING THE STRAIGHT PIPES OR MUFFLER SHOULD BE ON TOP OF EXHAUST BRACKET TUBE WHEN INSTALLED CORRECTLY). DO NOT INSTALL LEFT SIDE UNTIL YOU HAVE LOCATED THE LEFT SIDE STRAIGHT PIPE OR MUFFLER SO IT WILL MATCH THE RIGHT SIDE IN HEIGHT AND FORE AND AFT PLACEMENT.
8. NEXT INSTALL THE STRAIGHT PIPES (AKA: JOHNNY PIPES) OR MUFFLERS. FIND THE HEAVY-DUTY EXHAUST CLAMPS (QTY OF 2) AND INSTALL TWO 3/8-16X1/4 STAINLESS BUTTON HEADS AND INTO THE EXHAUST CLAMPS AND TWO 3/8 CENTER LOCK NUTS. SLIDE THE CLAMPS OVER THE SPLIT END OF THE MUFFLERS OR STRAIGHT PIPES AND THEN SLIDE THEM ON THE ALREADY INSTALLED ON BIKE HEADERS PIPES. YOU CAN INSTALL THE RIGHT SIDE ON USING 3/8-16X2.0 STAINLESS BUTTON HEADS AND 3/8 WASHERS, ALONG WITH 3/8 CENTER LOCK NUTS. EXTRA WASHERS ARE INCLUDED TO ACHIEVE PREFERRED ALIGNMENT OF PIPE. NEXT INSTALL EXHAUST BRACKET ONTO THE CHASSIS USING THE EXISTING THREADED HOLES AND THE 3/8-16 X2 3/4 STAINLESS SOCKET CAPS. ONCE ALIGNMENT HAS BEEN ACHIEVED YOU CAN NOW MOUNT THE LEFT SIDE PIPE.
9. NEXT MAKE SURE THE LEFT SIDE HEADER PIPES BOLTS ARE NOT TO LOOSE. ONCE YOU HAVE CHECKED THAT INSTALL THE BLACK POWDER COATED EXHAUST BRACKET ONTO THE STRAIGHT PIPE OR MUFFLER USING THE SAME BOLTS AND NUTS AS THE RIGHT SIDE. NEXT IT MAY BE NECESSARY TO SHIM THE PIPE UP USING 2X4 WOOD SO YOU CAN VISUALLY CHECK ALIGNMENT. ONCE YOU HAVE LOCATED WHERE THE PIPE SHOULD GO MARK THE CHASSIS WHERE YOU WILL NEED TO DRILL AND TAP THE 3/8-16 MOUNTING HOLES. ONCE YOU HAVE FINISHED DRILLING AND TAPPING INSTALL THE EXHAUST BRACKET ONTO THE CHASSIS AND THEN TIGHTEN UP ALL THE BOLTS AND NUTS ASSOCIATED WITH THE INSTALL.
10. NEXT INSTALL THE HEAT SHIELDS, YOU WILL NEED THE STAINLESS HOSE CLAMPS PROVIDED IN THE KIT. LONG STRAIGHT SHIELD GOES ON LOWER RIGHT HEADER PIPE. THE OEM RIGHT SIDE EXHAUST PORT HEAT SHIELD YOU RETAINED SHOULD NOW BE INSTALLED ON THE NEW RIGHT SIDE HEADER PIPE. THE SMALLEST HEAT SHIELD IN THE KIT SHOULD BE INSTALLED ON THE REAR CYLINDER 180\* HEADER PIPE. NOW INSTALL THE CLUTCH HEADER PIPE HEAT SHEILD.
11. NEXT YOU WILL NEED TO INSTALL THE BLACK POWDER COATED SHIFT ROD SUPPLIED IN THE KIT. YOU WILL NEED TO USE ONLY ONE OF THE EXISTING OEM HEIM JOINTS AND JAM NUTS FROM YOU OEM SHIFT ROD. INSTALL USING LOCTITE ON ALL FASTENERS. (PIPE ADJUSTMENT MAY BE NECESSARY TO ACHIEVE FULL MOVEMENT)