



STEP 1 FIXTURE PLATE

INSTRUCTIONS

PLACE LARGEST HOLE IN DRILL FIXTURE OVER THE HOLE TO BE REPAIRED. PLACE DRILL BUSHING IN FIXTURE, THEN PLACE LINE PIN INSIDE DRILL BUSHING TO PICK UP HOLE. DO NOT FORCE PIN INTO HOLE. USE BOLTS AND TIGHTEN TO SECURE FIXTURE IN PLACE. REMOVE LINE PIN.

STEP 2 DRILL

USE A SUITABLE DRILL MOTOR AND DRILL THE HOLE UNTIL YOUR MARK ON THE CORE DRILL LINES UP WITH THE TOP OF THE DRILL BUSHING. THIS WILL REQUIRE REMOVING DRILL AND BUSHING SEVERAL TIMES TO CLEAR CHIPS. CLEAN OUT ALL CHIPS. WATCH CAREFULLY THAT THE CORE DRILL IS GOING STRAIGHT! THIS IS VERY IMPORTANT.

NOTE: If drill bushing turns while drilling hole, Remove drill and drill bushing, Clean out all chips. We recommend using a long air nozzle 6" or longer to blow out all chips.

STEP 3 TAP

(USE WD40 for tapping) We recommend using a tap wrench for tapping.

TAP THROUGH THE DRILL BUSHING UNTIL YOUR MARK ON THE TAP LINES UP WITH THE TOP OF THE DRILL BUSHING. THIS WILL REQUIRE REMOVING THE TAP AND BUSHING SEVERAL TIMES TO CLEAR CHIPS. CLEAN ALL CHIPS USING BRAKE OR CONTACT CLEANER THAT WILL NOT LEAVE AN OILY RESIDUE, THE HOLE MUST BE CLEAN AND DRY. USE A FLASHLIGHT TO INSPECT THE HOLE FOR CHIPS AND CLEANLINESS. NOTE: Do not force tap to line. If the tap comes within a 1/8 of an inch or 3mm there will be enough tapped thread to accept insert.

STEP 4 DRIVER

LEAVE DRILL FIXTURE AND BUSHING ON FOR THE FINAL STEP OF UNIVERSAL KITS!

USE INSERT DRIVER OIL (DO NOT USE Wd40.) We recommend using a tap wrench for driver tool.

OIL THE THREADS OF THE INSERT DRIVER. SCREW AN INSERT ONTO THE DRIVER, APPLY A SMALL AMOUNT OF LOCTITE ON THE BOTTOM OUTSIDE THREADS OF THE INSERT AND SCREW THE INSERT INTO THE PREPARED HOLE. WHEN THE HEAD OF THE INSERT IS SEATED THE DRIVER WILL TIGHTEN UP, USE A LITTLE MORE POWER TO SCREW THE DRIVER THROUGH THE INSERT, UNTIL YOUR MARK ON THE DRIVER LINES UP WITH THE TOP OF THE BUSHING. REMOVE INSERT DRIVER, REPAIR IS COMPLETE.

NOTE: Do not force Driver to line. If the driver comes within a 1/8 of an inch or 3mm the driver should have expanded the insert. Check for the latest torque specifications before assembling the engine. Improper torque of the head can lead to thread failure.