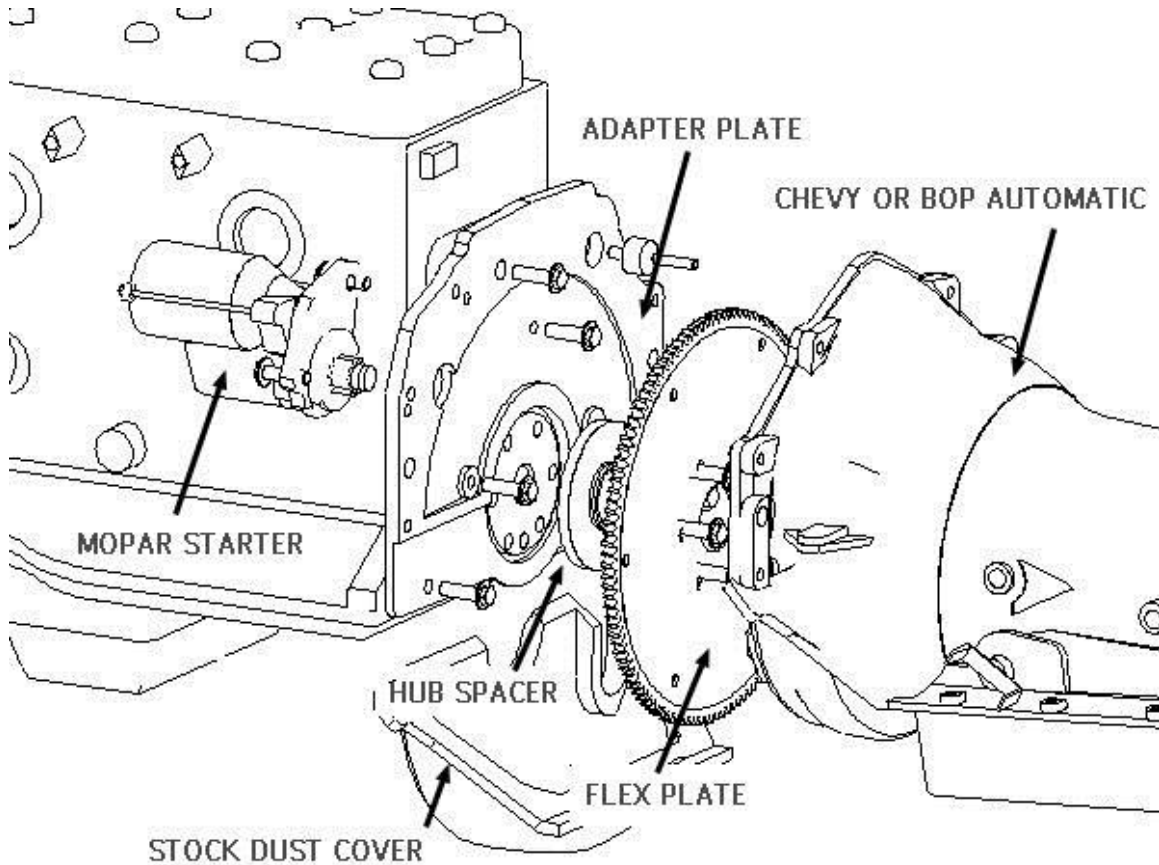


## 308-350 ADAPTER INSTALLATION INSTRUCTIONS

IMPORTANT: THIS IS A HIGH PERFORMANCE PART AND IMPROPER INSTALLATION COULD RESULT IN INJURY OR DEATH! NEVER WORK UNDER AN AUTOMOBILE THAT IS NOT PROPERLY SUPPORTED AND BLOCKED FROM ROLLING. NO CREDIT OR REFUND WILL BE ISSUED FOR PARTS DAMAGED DUE TO IMPROPER INSTALLATION. DO NOT OVERTORQUE THE FASTENERS. IF AT ANYTIME YOU HAVE ANY QUESTIONS ABOUT THIS INSTALLATION, CONTACT WILCAP IMMEDIATELY. THE INSTALLATION AND USE OF THIS PRODUCT IS DONE AT YOUR OWN RISK.



YOUR WILCAP ADAPTER IS DESIGNED TO USE A MODIFIED MOPAR SMALL BLOCKGEAR REDUCTION "MINI" STARTER. THESE STARTERS ARE AVAILABLE FROM WILCAP OR YOUR LOCAL PARTS HOUSE SHOULD BE ABLE TO SUPPLY ONE USING THE FOLLOWING PART NUMBERS;

CHRYSLER P/N 53005984

NIPPONDENSO P/N 128000-781 OR 128000-7810

MOPAR PERFORMANCE P/N/ P5249644

POWERMASTER P/N 9300, 9512, OR 9613

TILTON P/N 54-10000

AUTOLITE PRO P/N 17466

BECK ARNLEY P/N 187-0436

## 308-350 ADAPTER INSTALLATION INSTRUCTIONS

TYPICAL APPLICATION OF THE STARTER WOULD BE A 1992 DODGE DAKOTA WITH THE 5.2L ENGINE.

UNPACK AND CHECK FOR SHIPPING DAMAGE PRIOR TO BEGINNING THE INSTALLATION. PACKAGE SHOULD INCLUDE;

- 1 ALUMINUM ADAPTER PLATE
- 1 ALUMINUM HUB SPACER
- 1 FLEX PLATE

FASTENERS;

- 2 7/16 14 X 1 ½ HEX BOLT W/ FLAT & LOCK WASHERS
- 3 3/8 16 X 1 ¼ HEX BOLT W/ FLAT & LOCK WASHERS
- 1 7/16 14 X 1 ¼ FLAT HEAD BOLT
- 2 7/16 14 X 1 STARTER BOLT & LOCK WASHERS
- 1 OFFSET BOLT
- 6 ½ 20 X 1 ½ CRANK BOLTS & WASHERS

TORQUE VALUES

ADAPTER PLATE TO ENGINE	7/16-14 BOLTS 40-45 FTLBS 3/8-16 HEX HEAD BOLTS 35-40 FTLBS
CRANK SHAFT BOLTS	75-80 FTLBS
BELLOUSING NUTS	30-40 FTLBS

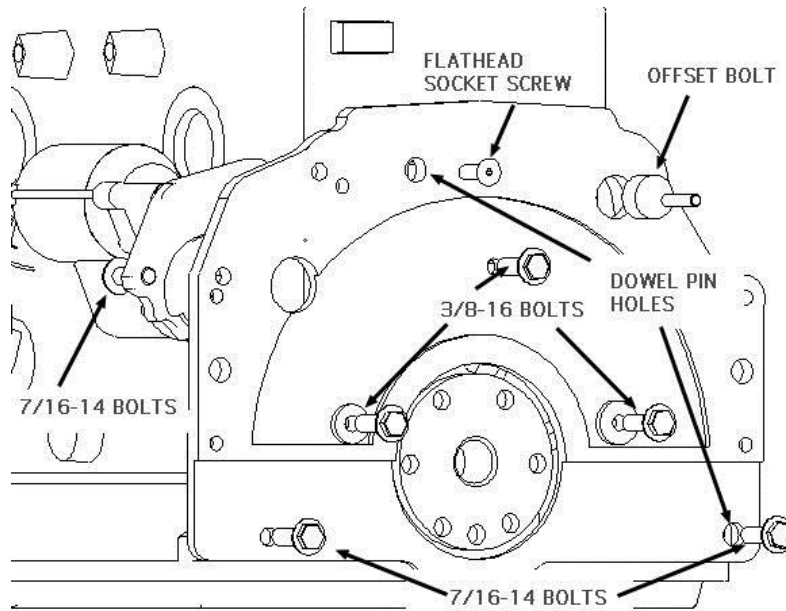
TRIAL FITTING; PRIOR TO STARTING THE INSTALLATION, YOU SHOULD TRIAL FIT AS MANY OF THE PIECES AS POSSIBLE; ADAPTER PLATE TO BLOCK, ADAPTER PLATE TO TRANSMISSION, STARTER TO ADAPTER PLATE, ADAPTER PLATE AND STARTER TO TRANSMISSION

CLEAN THE CRANKSHAFT HUB, BACK OF THE BLOCK, FRONT OF THE TRANSMISSION. INSPECT FOR CRACKS AND BURRS AND REPAIR AS NEEDED. CHASE ALL HOLES IN THE BLOCK WITH THE CORRECT TAP AND MAKE CERTAIN THE THREADS ARE SERVICEABLE.

PLACE THE ADAPTER PLATE ONTO THE ENGINE BLOCK. IF NECESSARY USE A RUBBER Mallet TO FIT THE PLATE UP TO THE BLOCK FLUSH. DO NOT USE THE CAP SCREWS TO FORCE THE PLATE ONTO THE BLOCK.

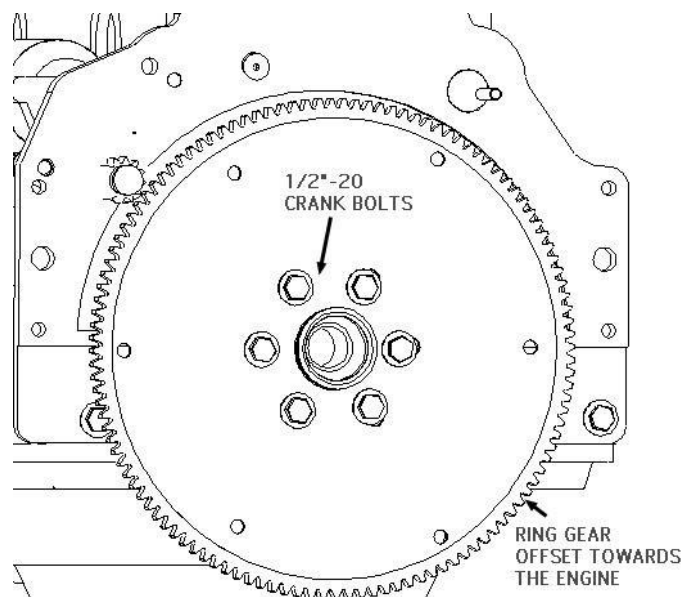
MAKE CERTAIN THE STARTER BOLTS DO PROTRUDE PAST THE BACK OF THE ADAPTER PLATE AND THAT THE ANGLE HEAD SCREW, THE OFFSET SCREW, AND THE 2 HOLLOW DOWEL PINS ARE BELOW THE SURFACE OF THE ADAPTER PLATE.

## 308-350 ADAPTER INSTALLATION INSTRUCTIONS

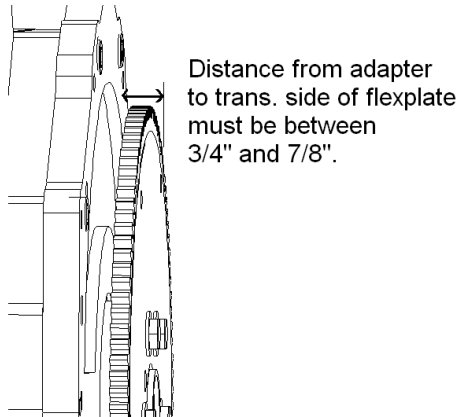


USING THE SUPPLIED BOLTS BOLT THE ADAPTER PLATE TO THE BLOCK. IF NECESSARY USE A RUBBER Mallet TO FIT THE PLATE UP TO THE BLOCK FLUSH. DO NOT USE THE CAP SCREWS TO FORCE THE PLATE ONTO THE BLOCK. CHECK FOR FIT. THE PLATE SHOULD FIT FLAT TO THE ENGINE BLOCK WITH NO ROCKING OR GAP. USE THREAD LOCKING COMPOUND AND TORQUE THE BOLTS

BOLT THE FLYWHEEL TO THE CRANKSHAFT USING THE SUPPLIED BOLTS. REMEMBER WHEN BOLTING THE FLYWHEEL TO THE CRANKSHAFT AND WHEN BOLTING YOUR PRESSURE PLATE TO THE FLYWHEEL PROCEED IN A CRISS-CROSS PATTERN A MAXIMUM OF 1/2 TURN AT A TIME.



## 308-350 ADAPTER INSTALLATION INSTRUCTIONS



CHECK THE DISTANCE BETWEEN THE TRANSMISSION SIDE OF THE FLEXPLATE AND THE ADAPTER. THIS SHOULD BE BETWEEN .750" AND .875". **DO NOT PROCEED WITH THE INSTALLATION IF THIS IS NOT CORRECT.** ASSEMBLING THE MOTOR TO THE TRANSMISSION WITH THIS DIMENSION NOT IN TOLERANCE COULD RESULT IN TRANSMISSION OR STARTER DAMAGE. CONTACT WILCAP IF YOU FIND THIS DIMENSION TO BE GREATER THAN 7/8" OR LESS THAN 3/4".

FIT UP THE STARTER MOTOR AND CHECK FOR PROPER RING GEAR TO PINION GEAR ENGAGEMENT. ADJUST IF NEEDED AND TORQUE STARTER BOLTS TO PROPER VALUE.

CHECK THAT THE PINION GEAR DOES NOT HIT THE TRANSMISSION CASE. IF IT DOES, IT MAY BE NECESSARY TO GRIND A SMALL AMOUNT OF MATERIAL AWAY ON THE INSIDE OF THE TRANSMISSION CASE. USING A DIE GRINDER OR A ROTARY FILE, GRIND AWAY THE NEEDED AMOUNT THROUGH THE STARTER PINION HOLE.



DO NOT HESITATE TO CONTACT US WITH ANY PROBLEMS, IDEAS OR SUGGESTION TO MAKE THIS PRODUCT BETTER. THANKS AGAIN FOR YOUR BUSINESS.