

292-350 BHA 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. REMEMBER THAT YOUR ADAPTER PLATE IS ALUMINUM AND NOT CAST IRON. 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.

CLUTCH DISKS SHOULD NEVER BE HANDLED WITH DIRTY HANDS. CONTAMINATION OF THE FRICTION SURFACE WITH OIL OR GREASE WILL SHORTEN THE LIFE OF THE CLUTCH. PRIOR TO ASSEMBLY ALL CLUTCH COMPONENTS SHOULD BE CLEANED THOROUGHLY.

THE ADAPTER IS DESIGNED TO USE THE STOCK FLYWHEEL, STARTER, PRESSURE PLATE, AND BELLHOUSING FROM YOUR ENGINE. THE CLUTCH DISK USED IS THE CORRESPONDING DISK MATCHING THE TRANSMISSION INPUT SHAFT AND THE PRESSURE PLATE DIAMETER. FOR EXAMPLE; IF YOUR STOCK PRESSURE PLATE FOR YOUR ENGINE IS 11", YOU WILL NEED AN 11" CLUTCH DISK WITH THE TRANSMISSIONS INPUT SHAFT SPLINE (1 1/16 X 10). CONTACT WILCAP IF YOU NEED A SPECIFIC CLUTCH DISK.

YOUR THROW OUT BEARING WILL NEED TO HAVE THE SLEEVE PRESSED INTO IT WHEN THE ORIGINAL INPUT SHAFT WAS 1 3/8". CAREFULLY PRESS THE SLEEVE INTO THE FRONT OF BEARING CARRIER USING AN ARBOR PRESS. PRESS IT IN UNTIL IT IS FLUSH OR SLIGHTLY BELOW THE BEARING SURFACE. THE ASSEMBLY SHOULD BE A SLIDING FIT ON THE TRANSMISSIONS FRONT BEARING RETAINER. THE THROW OUT BEARING SLEEVE IS AVAILABLE SEPERATLEY FROM WILCAP.

WHEN THE ORIGINAL INPUT SHAFT IS A 1 1/16", THE FORD THROW OUT BEARING MUST BE SLEEVED. THE BEARING IS AVAILABLE FROM WILCAP WITH THE SLEEVE INSTALLED AND MACHINED.

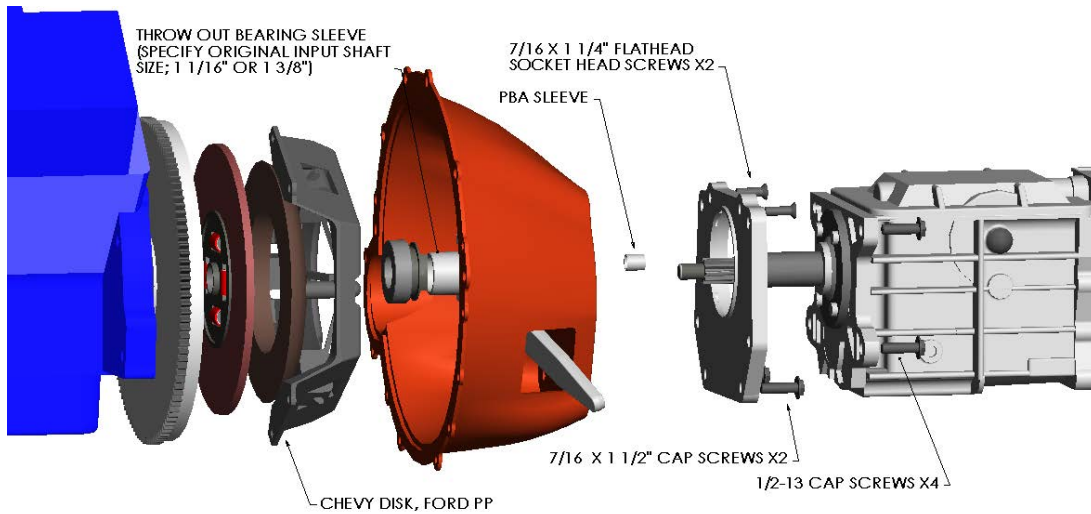
UNPACK AND CHECK FOR SHIPPING DAMAGE PRIOR TO BEGINNING THE INSTALLATION. PACKAGE SHOULD INCLUDE;

- 1 ALUMINUM ADAPTER PLATE
- 1 PILOT BEARING ADAPTER
- 1 THROW OUT BEARING SLEEVE. (OPTIONAL)

FASTENERS;

- 4 7/16-14 X 1 1/4" SOCKET HEAD CAP SCREWS
- 4 1/2"-13 X 1 1/2" HEX HEAD BOLTS AND LOCK WASHERS

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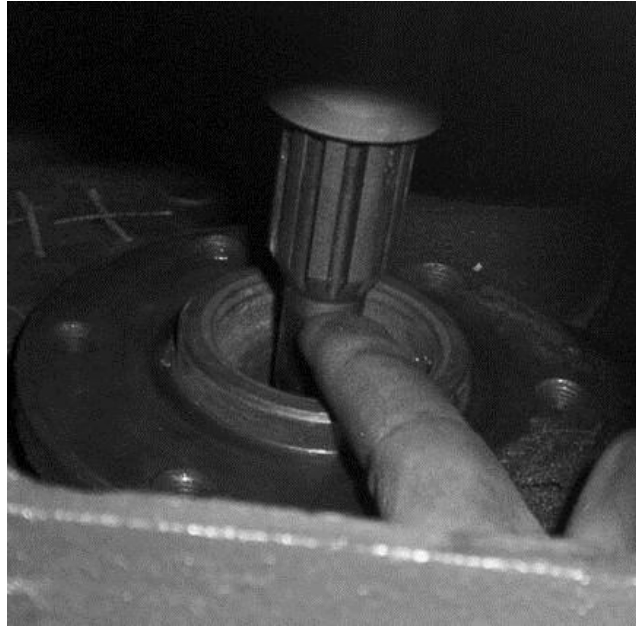


PLACE THE ADAPTER PLATE ONTO THE BELLHOUSING. IF NECESSARY USE A RUBBER Mallet TO FIT THE PLATE UP FLUSH. INSTALL THE SCREWS USING A THREAD LOCKING COMPOUND AND TORQUE. NOTE; IF YOU ARE USING THE 49-53 FORD STAMPED STEEL BELLHOUSING, THE FLATHEAD SOCKET HEAD CAP SCREWS MUST BE SWITCHED TO 7/16-20 SCREWS. DO NOT USE THE CAP SCREWS TO FORCE THE PLATE ONTO THE BELLHOUSING. MAKE CERTAIN THE ADAPTER PLATE SITS FLUSH TO THE BACK OF THE BELLHOUSING AND THERE IS NO GAP.

THE BEST METHOD TO INSURE PILOT BEARING ENGAGEMENT IS TO INSTALL THE TRANSMISSION WITHOUT THE PRESSURE PLATE OR CLUTCH IN PLACE. VIEWING THROUGH THE THROW OUT BEARING ARM WINDOW, MAKE CERTAIN THAT THE TRANSMISSION PILOT ENTERS THE BEARING A MINIMUM OF 3/8". IF THE TRANSMISSION DOES NOT ENGAGE THE PILOT BEARING, CONTACT WILCAP FOR AN ADAPTER PILOT BEARING. SOME CRANKS ARE DRILLED SHALLOWER THAN OTHERS. MAKE CERTAIN THAT THE INPUT SHAFT DOESN'T BOTTOM IN THE BORE OF THE CRANKSHAFT. IF THIS IS THE CASE, THE INPUT SHAFT PILOT WILL HAVE TO BE CUT DOWN. THIS CAN BE DONE WITH AN ABRASIVE CUT-OFF SAW. BE SURE TO GRIND A SMALL CHAMFER ON TO THE END OF THE PILOT SHAFT IF THIS OPERATION IS NEEDED.

INSTALL THE PILOT BEARING ADAPTER DRIVING IT INTO THE BACK OF THE CRANK SHAFT USING A SOCKET APPROXIMATELY THE SAME DIAMETER AS THE OUTSIDE DIAMETER OF THE PILOT BEARING ADAPTER. CHECK TO BE CERTAIN THERE ARE NO BURRS OR RAISED EDGES AFTER INSTALLING.

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NOTE; IN CERTAIN SITUATIONS IT MAY BE NECESSARY TO SHORTEN THE TRANSMISSION FRONT BEARING RETAINER. THIS CAN BE CHECKED BY INSTALLING THE FLYWHEEL AND CLUTCH DISK ONLY, THEN WITH THE TRANSMISSION INSTALLED THE CLEARANCE BETWEEN THE CLUTCH DISK HUB AND THE TRANSMISSION BEARING RETAINER CAN BE CHECKED. IT SHOULD BE A MINIMUM OF 1/8".

INSTALL THE FLYWHEEL, CLUTCH DISK AND PRESSURE PLATE. TORQUE DOWN THE ALL BOLTS IN A CRISS-CROSS PATTERN.

INSTALL THE THROW OUT BEARING FORK, THROW OUT BEARING AND CARRIER (WITH SLEEVE IF NEEDED), BELLHOUSING AND TRANSMISSION.

INSTALL THE TRANSMISSION TO ADAPTER PLATE BOLTS USING A THREAD LOCKING COMPOUND ONLY AFTER THE PLATE IS BOLTED INTO PLACE ON THE BELLHOUSING..

CHECK THE THROW OUT BEARING TO CLUTCH FINGER GAP. THIS SHOULD BE WITHIN THE ENGINE'S STOCK SPECIFICATIONS.

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