

INSTRUCTIONS

Bendtsen's Transmission Center
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Adapts 49-53 Ford/Mercury Flatheads to Late Model,
Ford AOD automatic transmissions

ASSEMBLY INSTRUCTION

Remove the stock transmission, bell housing, clutch and flywheel from the flathead engine.

Drill out the bottom transmission mounting holes on both sides to 7/16. These holes are for studs welded into the adapter plate.

Mount the adapter to the engine using the flathead screws provided. Note that one of the screws has the head turned down to clear the adjacent stud. (It is not a bad idea to Loctite the screws in place.)

Mount the transmission to the engine, (yes with-out the starter ring) make sure you have the torque converter in place over the input shaft, because you will be grinding the block and don't want the grindings inside the transmission. Be careful when pulling the bell housing over the dowels, we have found that some dowel holes in the C4 transmission are very tight, you may have to run a drill or reamer through the holes.

Hold the starter in place. You will note that the starter hits on the bottom rail of the block. You must grind approximately 1/8" off the bottom, basically making it run straight. Don't get carried away, grind only the minimum amount to clear.

You will also need to grind approximately 1/8" off the starter housing. Hold the housing up in place and ark the interference. Grind both the block and the starter to strike a balance between the two, such that neither gets too thin.

Bolt the starter in place. You may find that the outer most flange of the oil pan hits the starter. Bending the flange back toward the pan or grinding the flange down can remedy this. Bending the flange is the preferred option, be careful when bending it not to distort the area that holds the pan gasket.

Unbolt the starter and transmission.

Mount the flex plate to the crank. It should fit tight use the mounting bolts to pull it on. **DO NOT HAMMER IT IN PLACE.** This can damage the crankshaft or the bearings. Torque the bolts to 50 ft-lbs.

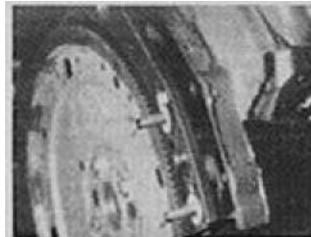
Mount the transmission to the engine, **MAKE SURE** you have the torque converter drain plug aligned with the hole on the flex plate.

Bolt the starter in place. It is not a bad idea to use a stock steel C4 flywheel cover plate to keep the rocks out!

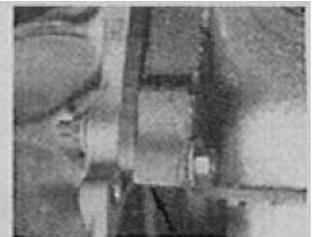
Check the operation of the starter.

This completes the installation.

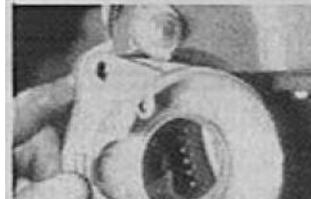
FOLLOW STEP BY STEP



Drill Out 7/16"



Grind Off Corner



Grind Off 1/8"



Grind Off to Clear Block



Check Clearance On Oil Pan Lip



