

Modern DriveLine

Adapter Installation

These Instructions Service the Following Adapter Part Number:
MD-401-2200



Thank You for purchasing from Modern DriveLine.

The adapter plate you purchased requires drilling one hole in your existing bell housing. Two threaded holes will not align with any other holes; this is normal. Do not modify the adapter plate in any way. Note: There are two thru holes without threads on either side of the registration opening that do not get used; they are for tooling purposes only.

Prior to installing, verify fitment. Place the adapter onto the face of the transmission and verify the four threaded holes align with the mounting holes in the transmission case and the adapter registration opening is snug to the transmission bearing retainer. Also verify the adapter sits flat on the face of the transmission.

Verify fitment of the adapter onto the bell housing. Remove the adapter from the transmission and place into the bell. Verify the two countersunk holes on the adapter align with the threaded holes in the bell. Verify the adapter sits flat on the face of the bell housing and the registration flange fits snugly into the bell.

Temp install the three countersunk fasteners for the adapter into the bell housing and snug down. Use a drill bit or transfer punch that fits inside the threaded hole of the adapter that does not align with the transmission fastener threaded holes. Drill that hole thru into the bell housing using the adapter as a guide. Do not drill the hole in the adapter larger than it is or remove any threads from any holes.

Remove the adapter from the bell and open up the newly drilled holes in the bell housing to 15/32" (7/16"+) diameter (full size). On the inside of the bell, clean up surfaces to be flush to be able to install 7/16" x 1" fastener with lock washer.

This paragraph is for customers using a Tilton internal hydraulic throw out bearing. If you are not installing a Tilton T/O bearing, proceed to the next paragraph. This adapter MAY require modification to support the installation of a Tilton Hydraulic Bearing. Position the adapter to the face of the transmission. Temp install the Tilton bearing as described in the bearing instructions. Locate which bearing retainer fastener will be removed to install the Tilton retaining pin. Mark the adapter and remove the material in this area after removing from the transmission. There will be no need to remove material beyond the edge of the bearing retainer registration area. Remove all debris and chips from the installation area. Install Tilton retainer bolt per manufacturer's instructions. Some adapters have very small registration openings. For these adapters the Tilton bearing must be installed with the bell, adapter, and transmission already assembled and must be installed as a single unit.

Install the adapter to the bell housing using three c'sink fasteners and one fastener you drilled inside the bell. Verify the c'sink fastener heads are below the surface of the adapter and the inner bolts' threads do not protrude beyond the face of the surface the transmission mounts to. Torque 7/16"-14 fastener and 1/2" countersink fasteners to 25 ft/lbs with anti-seize compound applied. The c'sink fasteners may be installed with medium strength loc-tite. You are now ready to install your transmission.

Note: Some bell housing configurations will have thru-holes in the two lower locations and require longer countersunk fasteners. These are supplied with two additional lock-washers and a locking nuts. Locking or anti-seize compound is not required on these two bolt locations.



Install (4) 7/16"-14 supplied fasteners for transmission and torque to 19 ft/lbs (dry) or 15 ft/lbs with anti-seize compound applied.

Thank You for choosing Modern DriveLine Products. For technical assistance call 208-453-9800 M-F 9-5 Mountain Time or e-mail tech@moderndriveline.com.