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INSTALLATION INSTRUCTIONS FOR PN: 8286 HYDRAULIC THROW-OUT BEARING FOR MULTI-DISC RACING CLUTCHES

Part Number 8286 includes:

1 - 82874 5/16" -18 Stud
1 - 82875 3/8" -16 Stud

1 - 82873 Shim Kit
1 - 82864 Master Shim

1 - T.O.B. Assembly

Accessories:

8287 - Remote Bleed Kit
82874M - M8 x1.25 Stud

8290 - Hydraulic Coupler
82863 - Master Shim 1.5x Thick

828714 - Replacement O-ring Kit

WARNING!

- Do not use this throw-out bearing with anything other than a 7-1/4", 5-1/2", and 4-1/2" diameter multi-disc racing clutch.
- The bearing must be adjusted to the proper clearance or the unit will be damaged.
- The 8286 is designed to work with a 3/4" master cylinder.
- Never use petroleum or mineral base fluids; only DOT 3 or equivalent non-silicone brake fluid.

1. Facing the transmission, replace the bearing retainer bolt in the 2 o'clock position with the 5/16" or 3/8" stud.
2. Install the throw-out bearing over the bearing retainer shaft making sure the newly installed stud is between the two fittings of the throw-out bearing. The bleeder fitting should rest against the stud which will allow the inlet fitting proper orientation with the clutch fork hole in the bell housing.
3. Assemble your flywheel and clutch on the crank and bolt on the bell housing.
4. Measure the distance from the bell-housing surface to the clutch fingers. Subtract an 1/8" to allow for clearance and record this number. Now measure from the face of the transmission to the front of the bearing. Install the necessary amount of the supplied shims until the dimension is equal to the one that you recorded. Each .050" thick shim moves the bearing forward .065". The master shim should be the first shim installed against the back of the bearing.
5. Attach a #4 flexible line to the inlet fitting.
6. Install the transmission and throw-out bearing assembly. If done properly, there should be .125" or 1/8" clearance between the bearing and the clutch fingers.
7. Bleed the system thoroughly, making sure that if there is a high spot between the bearing and master cylinder that the air is bled from the high spot.
8. Howe 8286 throw-out bearings are known to fit Saginaw 3-speed, Muncie 4-speed, T-10 and Jerico 2 & 4-speed transmissions. It will not fit T-5 transmissions and will not work with a RAM coupler. The Howe bearing will work with most reduced diameter racing clutches including Quartermaster and Tilton. The throw-out bearing may fit other transmissions if there is adequate room between the transmission and the clutch. The throw-out bearing must also fit over the diameter of the transmission bearing retainer shaft. Refer to the critical dimensions in the drawing below. *Note: See table above to determine how much master cylinder stroke is required to reach maximum bearing stroke (.404").*

Master Cylinder Ø	Rqd. Master Cylinder Stroke
3/4"	.912"
7/8"	.670"

