E-Z RIDER®

Heavy Duty Clutches
Made in the U.S.A.

Technical Hot Sheet

CLUTCH ENVELOPE

ACE MFG.
EZ RIDER
"Innovative Leader In Clutch Technology"

Using a Fiber Spacer •
What/When/Why •
Installation/Removal •

For Immediate Assistance

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24/7 TECHNICAL SUPPORT

CLUTCH ENVELOPE

DO YOU NEED A FIBER SPACER?

What is it?

It is a 1/8” thick spacer used to compensate for material loss due to resurfacing of the flywheel or wear on the input shaft bearing retainer.

Where does it go?

The fiber spacer installs on the input shaft against the input shaft bearing retainer before the clutch brake.

Why is it needed?

When a truck is new, the distance from the flywheel to the input shaft bearing retainer is a set dimension and the flywheel sets in the flywheel housing 2.5” (Fig. 1). When a flywheel has been resurfaced, this dimension increases because of lost material when ground (Fig. 2). This means that when a new clutch is installed, the release bearing has moved farther away from the clutch brake. (Compare Fig. 1 to Fig. 2)

What if it is not used?

If the fiber spacer is not used, it would be necessary to adjust the clutch to make up for the wear/loss of material in the flywheel and input shaft bearing retainer.

Note: Adjusting the clutch during installation is not recommended.

E-Z Rider clutches are pre-adjusted at the factory. Therefore no adjustment is necessary at the time of installation. If adjustment *is* made, the plate load and release will be compromised resulting in issues with shifting, drivability, and ultimately reducing the life of the clutch.

Fig. 1

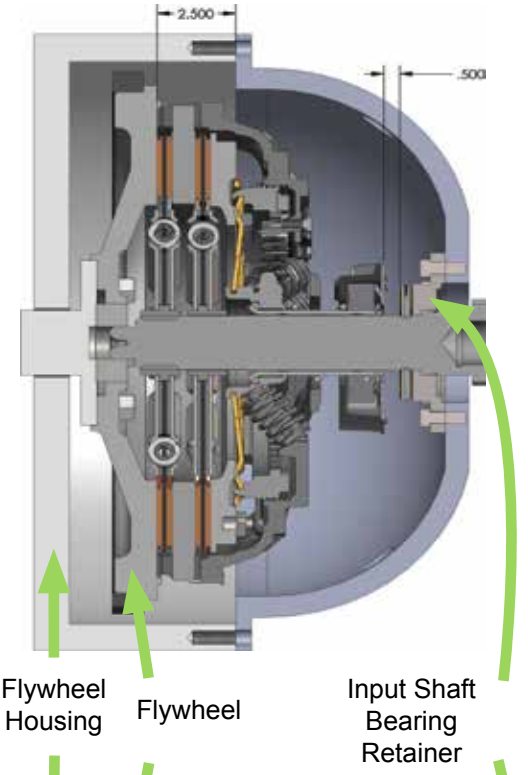
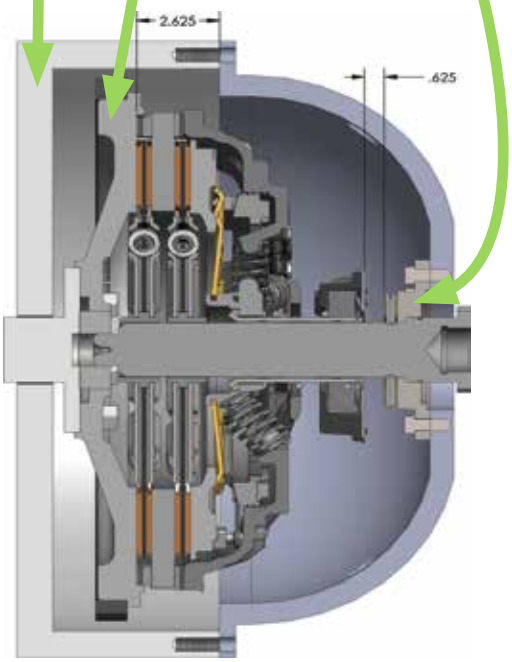


Fig. 2



CLUTCH ENVELOPE

Installing a Fiber Spacer

Ace recommends installing a fiber spacer with every clutch replacement (Included with each unit).

The transmission does not have to be removed to install a fiber spacer. The fiber spacer will be scored showing you where to cut a 'V' notch in it (Fig.3). Once cut, it will twist and install over the input shaft.

Note: If the clutch was adjusted at installation and the 1/2" - 5/8" dimension in Fig. 4 is not correct, the clutch can be re-adjusted counter-clockwise to achieve the 1/2" - 5/8" dimension.

Adding the fiber spacer between the release bearing and clutch brake will achieve the 1/2" dimension shown in Fig. 4.

For 2" Shaft:

I.D. 1.5"

O.D. 2.0"

For 1.75" Shaft:

I.D. 1.25"

O.D. 1.75"

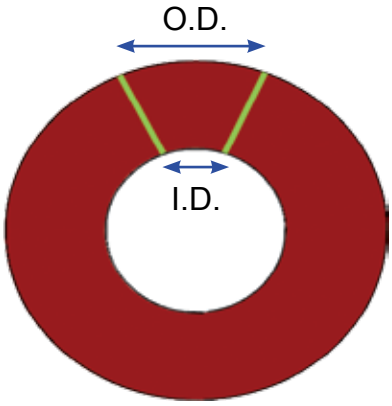


Fig. 3

Removing a Fiber Spacer

If the fiber spacer was installed and the 1/2" gap between the clutch brake and the release bearing is too small, the fiber spacer can be easily removed by using a chisel.

Note: An oversized clutch brake can achieve the same thing.

Regardless of using a fiber spacer or oversized clutch brake, the dimensions in Fig. 4 MUST be maintained for proper clutch setup.

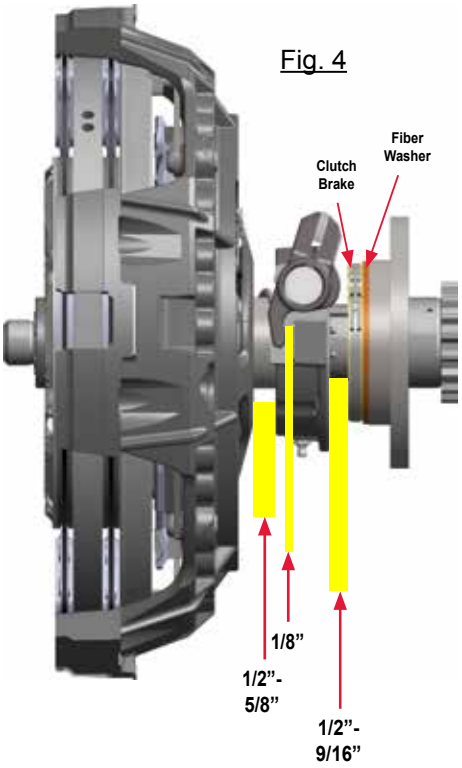


Fig. 4

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