

E-Z RIDER.

ACE MFG.

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Technical Hot Sheet

FLYWHEEL 101

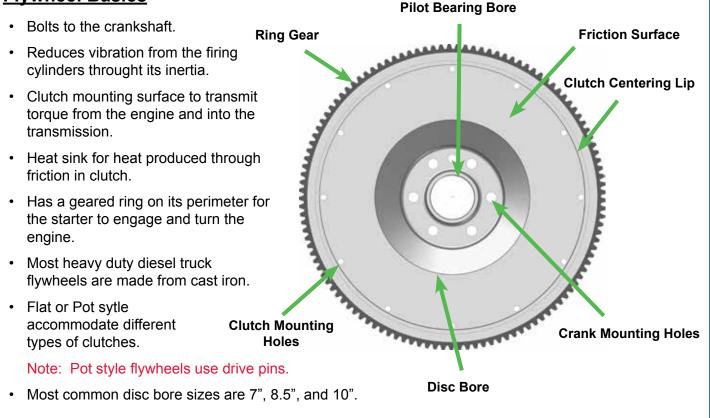
• Basics • Verifying Good Condition Checking Runout

For Immediate Assistance **1-800-325-6138**

24/7 TECHNICAL SUPPORT

FLYWHEEL 101

Flywheel Basics



Verifying Good Flywheel

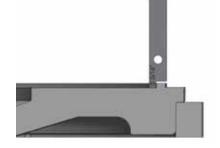


You must have a minimum of 5/16" distance from the friction surface of flywheel to top of the bolt head that holds the flywheel to the crankshaft. If it is less than 5/16", you need a NEW flywheel.

If this dimension is less that the 5/16" the dampener of the clutch disc will hit the crank bolts and cause failure.

Clutch centering lip cannot be greater than 3/16" deep. This dimension increases as the flywheel wears or is ground for resurfacing.

If it is greater than 3/16" the clutch will not bolt tight to flywheel.





For correct clutch operation on a 14" pot style flywheel this dimension must be 2.937". When resurfacing these flywheels you must take the same amount from the clutch mounting surface as you do the friction surface to maintain 2.937".

Drive pins must be replaced with every clutch. If they are not replaced and made square, the center plate can bind.

Note: All measurements can be checked and verified by using a flywheel gauge tool (Part #IG100).

FLYWHEEL 101

Checking Runout - Measuring Engine Flywheel Housing and Flywheel

CHECK THE FOLLOWING USING A DIAL INDICATOR:



<u>Flywheel Face Runout</u> Secure dial indicator base to flywheel

housing face. Put gauge finger in contact with flywheel face near the outer edge. Rotate flywheel one revolution. Maximum acceptable runout is .008 (.20mm).



Flywheel Housing I.D. Runout Secure dial indicator base to

crankshaft. Put gauge finger against flywheel housing pilot I.D. Rotate flywheel one revolution. Maximum acceptable runout is .008 (.20mm).



Pilot Bearing Bore Runout Secure dial indicator base to flywheel housing face. Position gauge finger so that it contacts pilot bearing bore. Rotate flywheel one revolution. Maximum acceptable runout is .005 (.13 mm).



Flywheel Housing Face Runout Secure dial indicator base to flywheel near the outer edge. Put gauge finger in contact with face of flywheel housing. Rotate flywheel one revolution. Maximum acceptable runout is .008 (.20 mm).

PROBLEMS CAUSED BY EXCESSIVE RUNOUT:

- · Clutch will not release properly
- · Uneven pull, causing bushing to come out
- Increased vibrations
- Uneven wear
- Accelerated disc hub wear
- Premature disc breakage
- Premature failure

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