



## DRAGON CLAW

14.5 (4/15/14 and up) 5.0 GT 23 SPLINE

**\*This Kit Requires a Min. 1 5/8 in. Working Input Shaft Splines.**

**\*Professional Installation recommended**

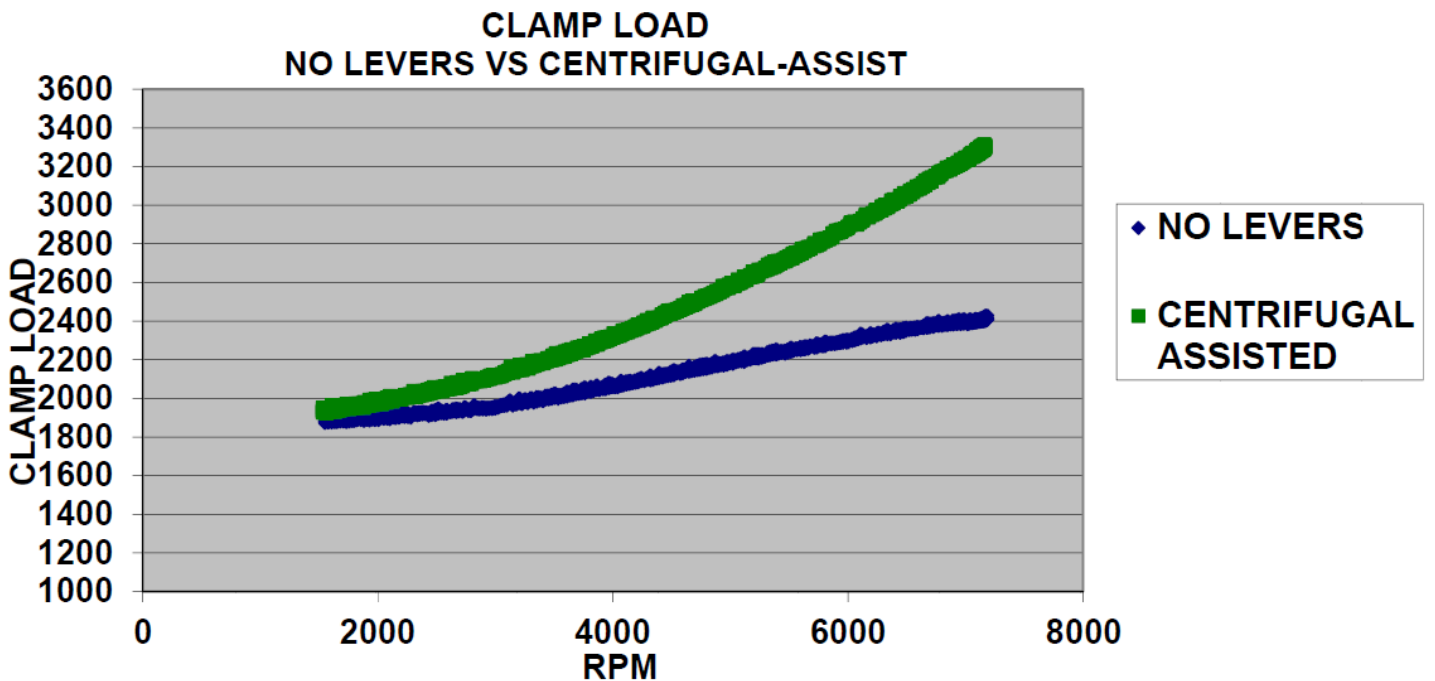
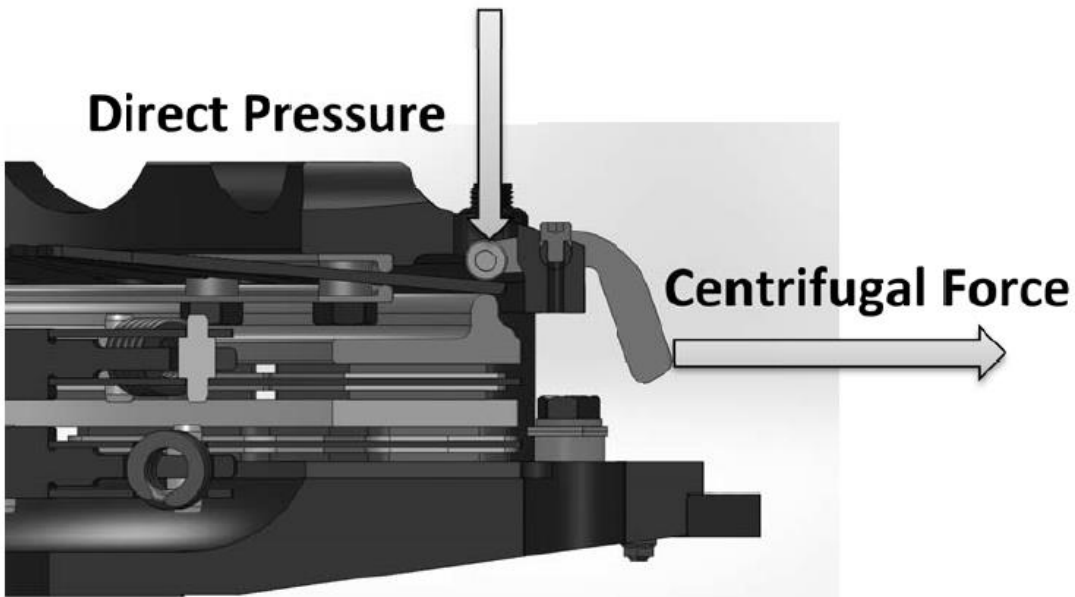
**\*Power/Air tools NOT advised**

1. Remove transmission assembly per shop manual. (Inspect input shaft splines for damage or burring.)
2. Remove existing clutch assembly. **CAUTION:** DO NOT remove flywheel at this time.
3. Remove two flywheel bolts at the 6 and 12 o'clock positions. Replace these two bolts with the supplied **set screws (18)**. Carefully remove the remaining bolts and discard all flywheel bolts. **Note:** The Factory bolts are torque-to-yield design and are not reusable. Remove flywheel, working back and forth from the 3 and 9 o'clock positions. Take caution when removing the flywheel so not to disturb the crank sensor tone ring located between the crankshaft and the flywheel. (If the tone ring is disturbed, it may result in a check engine light and it may need to be taken to a dealer to recalibrate the crank signal.)
4. Remove and install new **pilot bearing (14)**.
5. Install new **flywheel (1)**. Replace the factory flywheel bolts with newly supplied bolts and torque them per shop manual. **Step 1.** Using a star pattern tighten to 20 Nm (177 lb-in). **Step 2.** Tighten an additional 60 degrees. (**Caution:** Overtightening of flywheel bolts may result in crankshaft damage and oil leaks at the rear main seal.)
6. Install **inner clutch disc (5)** and **floaters (6)**. Install with sprung hub toward the flywheel or markings "floater side" toward the floater. Use supplied **alignment tool (17)** to align clutch disc and keep it centered. Attach **floaters (7)** with **locking nuts (8)** to attached **floaters studs (3)** with **floaters stands (4)** torque bolts to 25 ft-lbs. (**Caution:** Double check strap alignment before torquing.)
7. Install **flywheel stands (10)**. Install **outer disc (9)** and **cover assembly (11)**. Outer disc hub should be outward facing away from the crank toward the transmission or markings "floater side" toward floater and "trans side" toward transmission. Carefully align flywheel studs to cover through holes. (Flywheel studs are clocked to allow assembly in correct position only). Tighten 12-point 3/8" **flange nuts (12)** to 35 ft-lbs using a star pattern to draw cover down as evenly as possible.
8. On the 5.0 Mustang, it will be necessary to replace the release bearing and add shims behind the clutch slave and release bearing assembly. Add supplied **shims (16)**. Reinstall the release bearing using supplied (longer) **release bearing bolts (13)** that replace the short stock bearing bolts. Torque per shop manual.
9. Reinstall transmission assembly taking caution not to hang transmission on the clutch disc or forcing splines into clutch disc. It is also recommended to put transmission in gear before installation. This will aid in the spline alignment by being able to turn the input shaft with the output shaft, or by slightly rocking the transmission back and forth.
10. Fully bleed clutch system. This can be accomplished by working the pedal as many as 50 or more times until the pedal feels pressure in full stroke.

**Product Insert #199R11061**  
**Part Number 96-202**

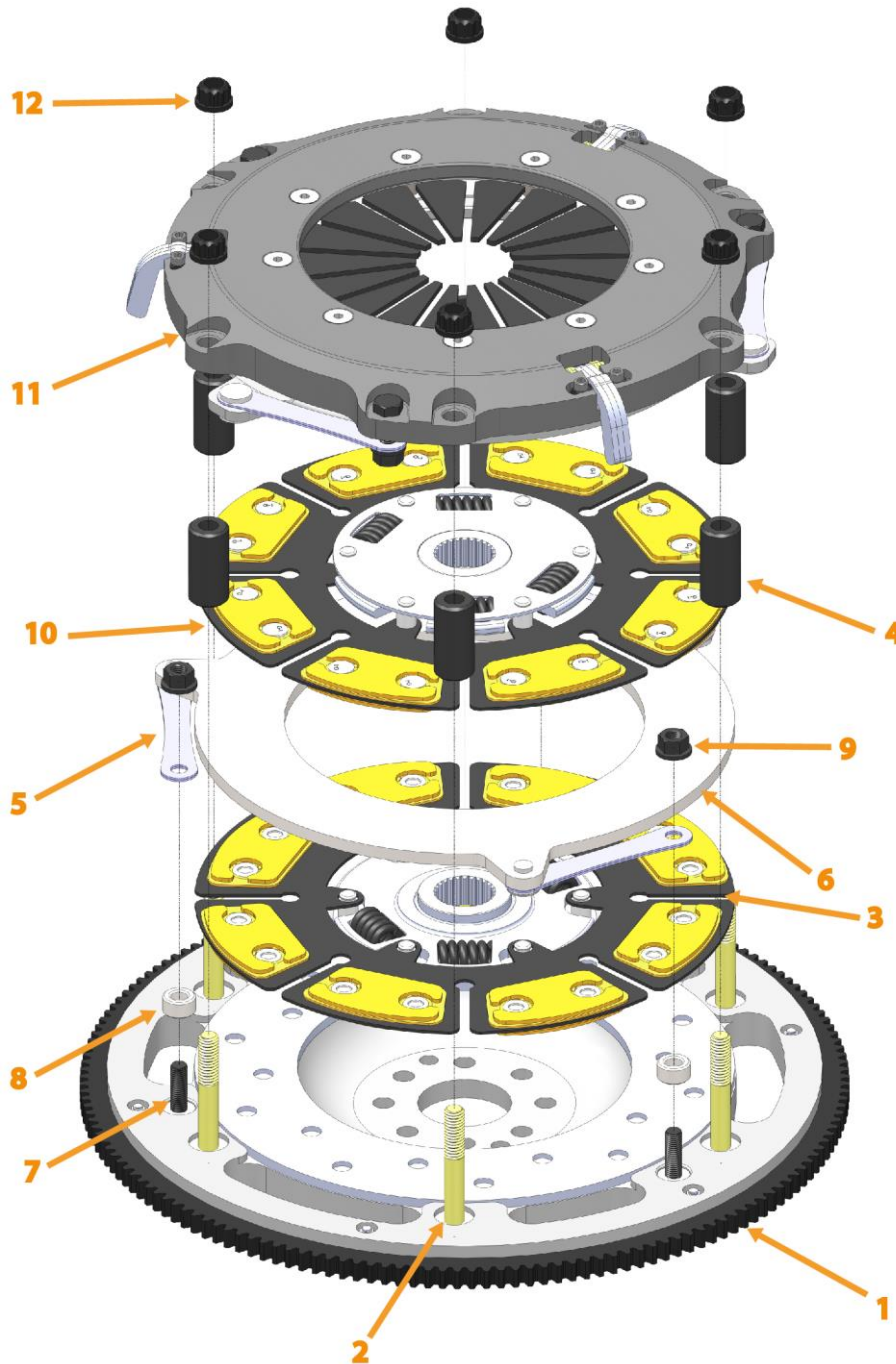
# Patented Technology:

The centrifugal lever-assist technology yields higher clamp load and torque capacity without increasing the pedal effort. How does it work? As engine RPMs increase the lever is forced to fly outward. As this happens, the lever pivots and applies direct pressure to the pressure plate. The graph below shows the patented levers increase torque capacity by 15% at peak torque RPM!



PARTS LIST					
#	Description	Qty	#	Description	Qty.
1	Flywheel	1	10	Outer Disc	1
2	Flywheel Studs	6	11	Cover/Diaphragm/Pressure Plate Assembly	1
3	Inner Disc	1	12	12 Point 3/8" Flange Nuts	6
4	Flywheel Stands	6	13	Set Screws	2
5	Floater Straps	3	14	Alignment Tool	1
6	Floater	1	15	Release Bearing Bolts	2
7	Floater Studs	3	16	Pilot Bearing	1
8	Floater Stands	3	17	Flywheel Bolts	8
9	Locking Nut	3	18	Shims	TBD*

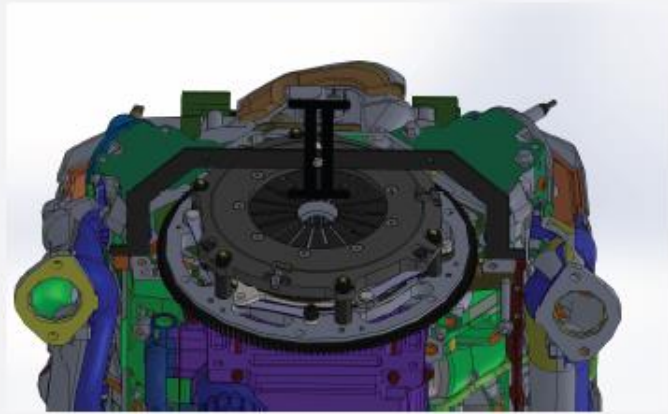
*\*Number of shims to be determined by application*



# BEARING SETUP TOOL

1. With tool removed from packaging, loosen center thumb screw to allow the locator to move freely.

2. Place tool with arch opening over the installed clutch assembly resting the feet firmly against the block or the block plate where the bell housing mates against the engine. (If straight edge bar causes interference, it can be removed for additional clearance.)

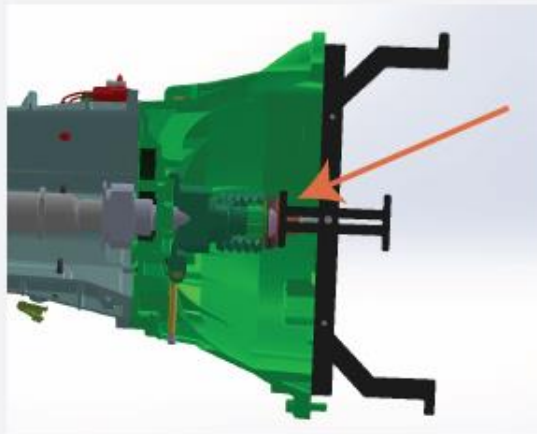


3. Slide locator toward clutch diaphragm fingers where the release bearing will ride. Tighten thumb screw.

4. Now the setup tool is set. (Reinstall straight bar if removed in Step #2.)

5. Place the straight edge bar of the tool flat across the bell housing mating surface.

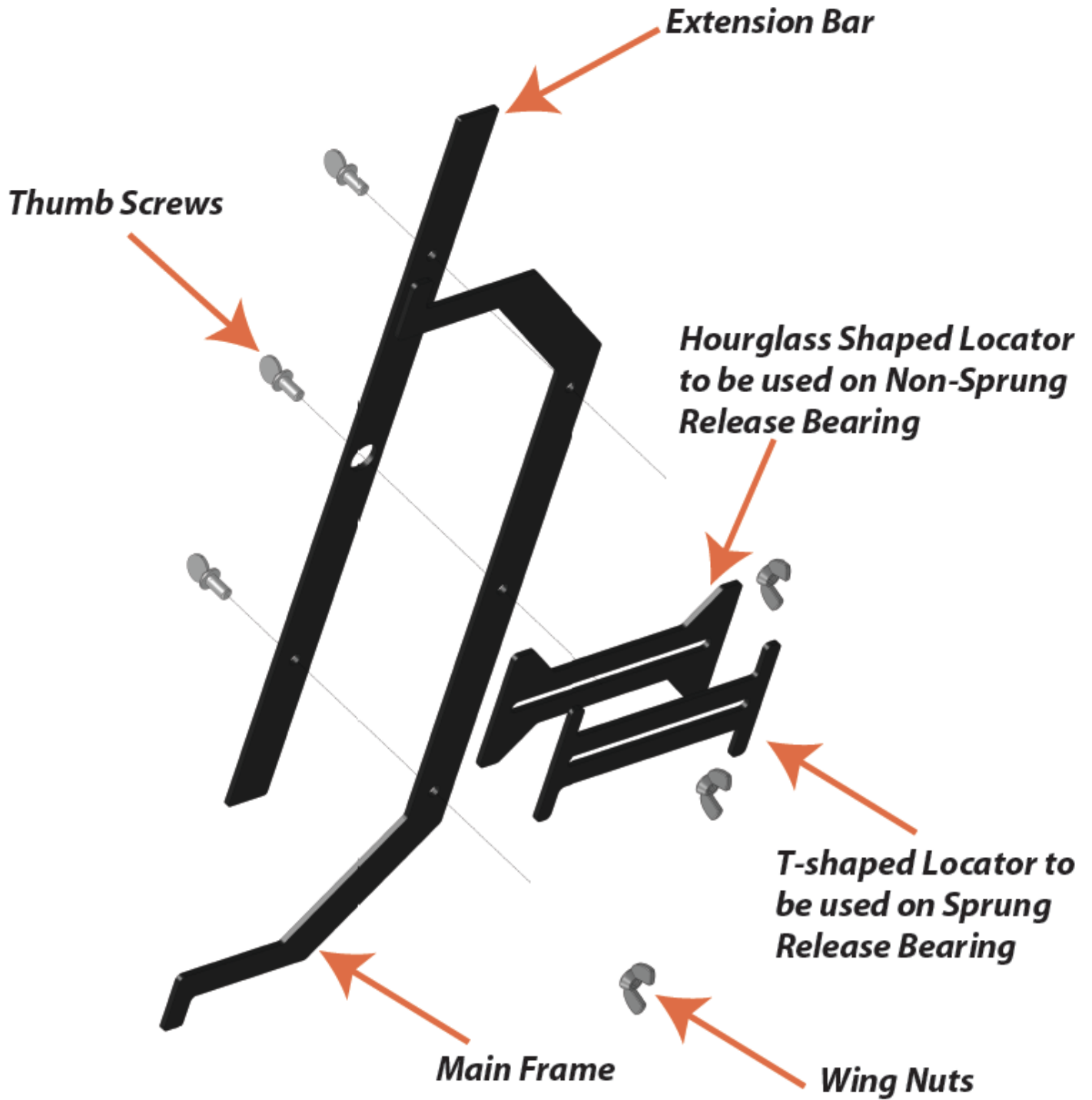
6. The Flat edge of the locator is where the release bearing needs to set 0/- 1/8 inch.



**Locate Bearing  
to this Point  
0/- 1/8 inch**

7. Bearing adjustment is to be determined by the type of bearing to be used per application.

# BEARING SETUP TOOL



## ***HAYS LIMITED WARRANTY***

Due to the intended use of this product, warranty is limited to 90 days from the date of initial retail purchase. The product shall be free of defects in material and workmanship. Friction materials in this product are excluded. No warranty is offered for durability or specific performance because this is a consumable item. Hays is not responsible for the failure of mating components and/or other components of the driveline. Improper installation or improper application voids any warranty. If slippage occurs after installation stop use immediately and contact customer support. All products must be sent back to place of purchase for evaluation for warranty.

Clutch problems are frequently attributed to adjustment and/or release system malfunction.

\*Before removal of the product for possible warranty, please refer to shop manual on operation and adjustment of the release system or proper release. The following list is common issues that are not covered under warranty.

- Worn Diaphragm fingers
- Hot spots on friction surfaces
- Lubricant on friction surfaces
- Damaged or worn friction material
- Damaged or broken disc hub and/or carrier
- Broken hub springs
- Worn bearing face
- Broken bearing seal

**Hays Technical Support**  
**1-866-464-6553**