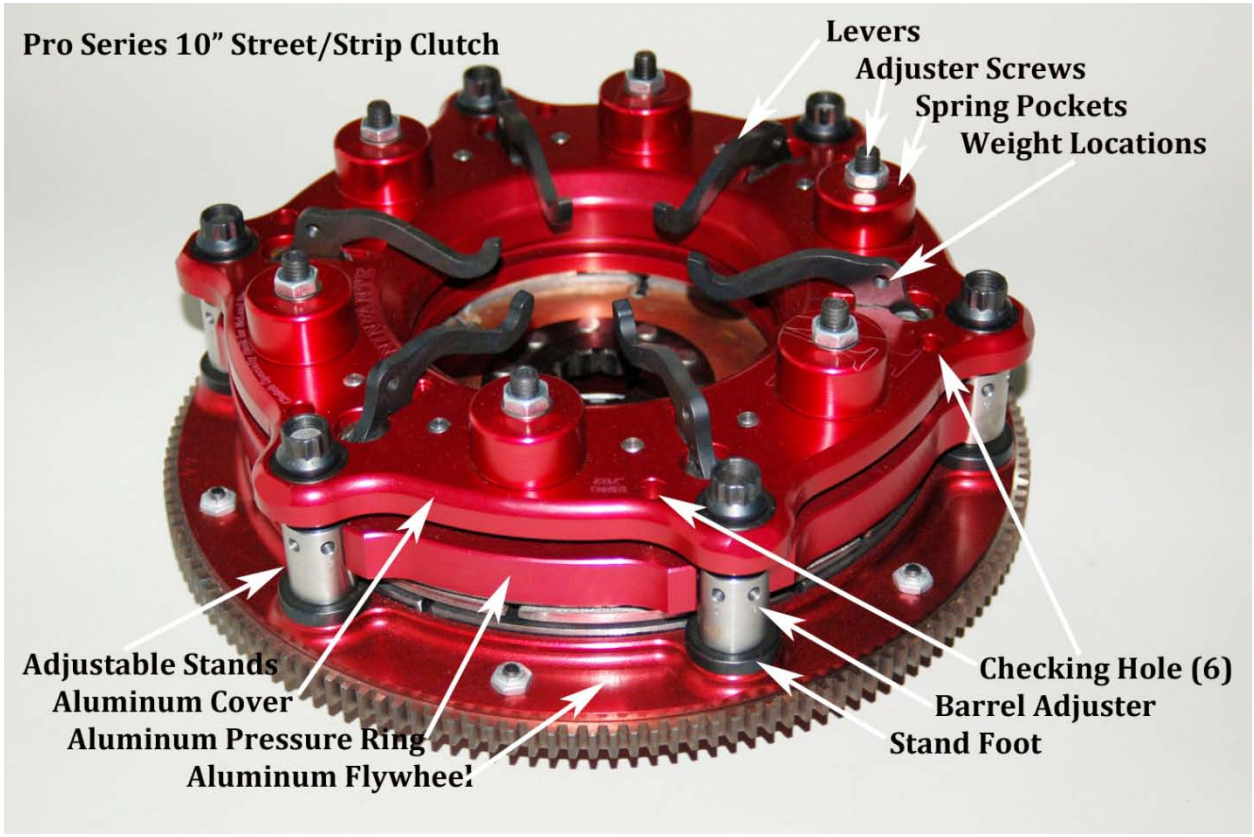
Pro Series 10” Street/Strip Clutch

Congratulations! You have just purchased the finest high horsepower Street/Strip clutch available. The Pro Series clutch systems are capable of handling 1000 to 3000 horsepower engines with extreme holding capability. The key benefits with this unit are low rotating mass, full adjustability and sintered discs for extreme holding capacity. Properly installed, this clutch system will provide the strength and durability you have come to rely on in all of the McLeod Racing family of products.



1) Look over the clutch and familiarize yourself with the component parts.
2) Remove the six large nuts securing the Aluminum Cover to the clutch assembly. Then lift the cover off of the assembly. Remove the six steel inserts from the top of the cover and place them onto the stand screws. Reinstall the nuts onto the stands to be certain the remaining parts (barrel adjuster, inserts) do not get misplaced.

3) Mark the disc before removal…flywheel side, transmission side, remove the sintered iron disc and set aside. Use a sharpie and mark "T" or "F" near the center hub. See Figure B.

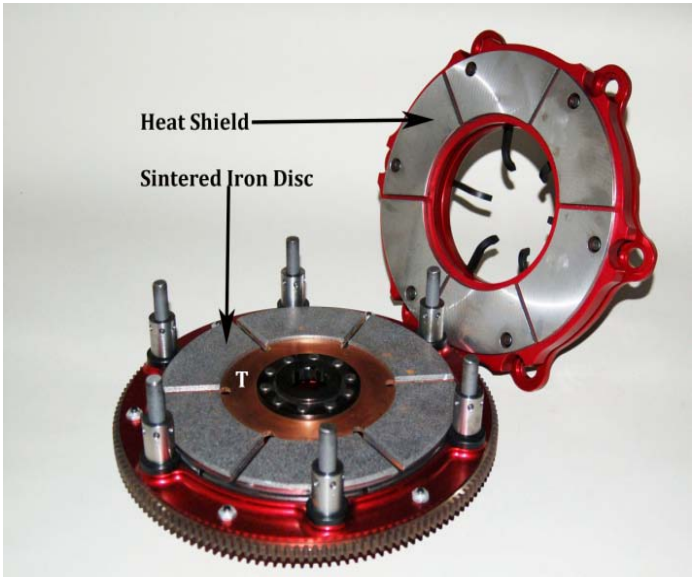


Figure B

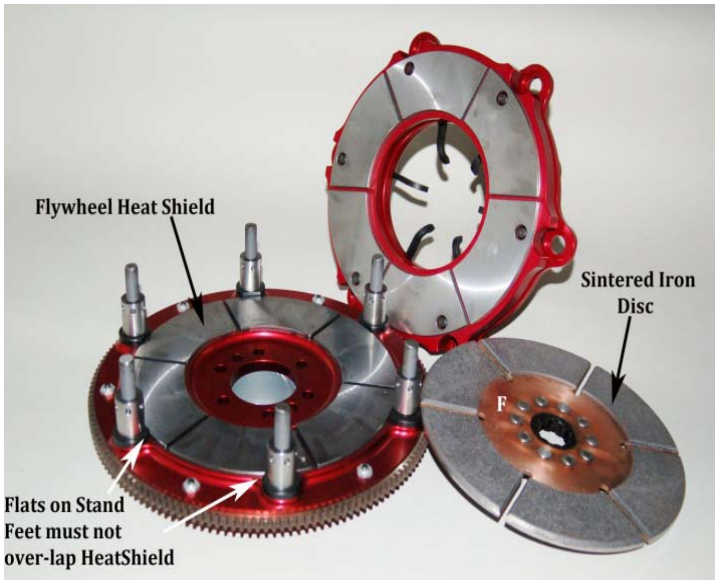


Figure C

4) Clean crank pilot and install pilot bearing into locating hole.
5) Install flywheel onto crankshaft. Fit should be easy slip-on or slightly snug.
6) Install flywheel bolts making sure all threads are clean and free of oil and debris. Use red or green Loctite. **Be sure to use proper flywheel bolts, with flat washers, not flexplate bolts! Torque to factory specs.**
7) Check to be sure the flats on the stands do not over-lap the heat shield plates. There are flat surfaces at the stand foot. See Figure C. Install the disc (s) and floater plates if it is a multi disc system. Be sure the discs are installed correctly…flywheel side/transmission side. Insert pilot tool through the disc(s) into the pilot bearing to center the disc's. Rotate the tool and press firmly forward to be certain it seats into the pilot bearing.
8) Remove nuts and steel inserts from the stands and install cover assembly onto stands. Be sure to check the stand foot to be sure all six of these do on over-lap the heat shield plates. Remember each of these have a flat spot for clearance. **When installing the cover be sure to line up SFI or Serial numbers inline, on top of one another.**
9) Install steel inserts into cover and install large nuts. Use a small amount of anti-seize compound on the threads of the stands. **Do not use Loctite thread adhesive!**
10) Refer to the Diagram Figure 1, 2 & 3 below. In a star pattern (1 o'clock, 7, 3, 9, 5, 11), snug the pressure plate nuts enough to draw the pressure plate cover down to within .010" of its final position. Use the included dial indicator at each stand location through the checking hole.

When checking ring height with gauge, needle should make one full Revolution back to zero.
At this point the pressure plate should have .702" from the top cover to the donut plate (see fig.2).
Then measure the space between the cover and the pressure ring, and insert that number here _____ for your reference(see fig. 3.).

Note: The dial indicator is used as a reference gauge and should be checked periodically to insure accuracy. Check this by setting clutch as described in figs.2 & 3, then calibrate the dial indicator by inserting it into the checking hole and resetting.

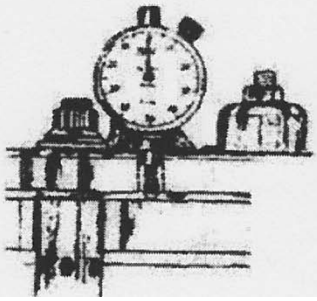


Figure 1. *Needle will be at zero when pressure plate is a the properly installed height. (needle will pass zero once and make one complete revolution back to zero).*

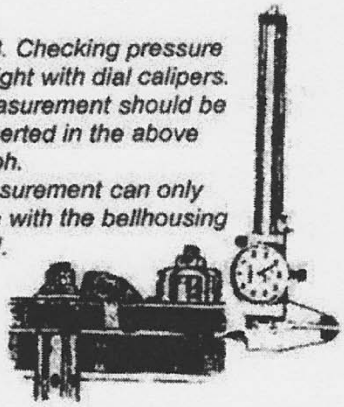


Figure 3. *Checking pressure plate height with dial calipers. This measurement should be the # inserted in the above paragraph. this measurement can only be made with the bellhousing removed.*

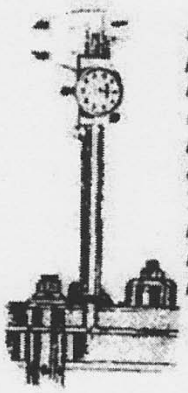


Figure 2. *Check pressure plate height with calipers using the depth measuring blade. correct height is 702". This measurement can be made through the inspection hole.*

Step 12: SETTING CLUTCH RELEASE CLEARANCE. Insert dial indicator into checking hole and hold into position. Have team member depress clutch pedal. Set pedal stop so that the clutch has between. 050" and .070" release clearance. Always check 2 holes 180deg. apart then average the number. Always use pedal stop, never allow the clutch levers to contact the pressure plate.

11) Rotate the barrels to meet the pressure plate cover and torque to 100 ft. lbs.

12) To move the pressure plate, loosen nut and rotate adjusting barrel up or down to achieve proper height (See Figure 1). Note: the stand barrels have numbers, each number represents .010" from the next. Once the clutch is finally adjusted these numbers may vary slightly from barrel to barrel.

13) Now that the pressure plate is close to its final setting, use the dial indicator again to obtain the exact pressure plate height. Slip the dial indicator into one of the six checking holes, the needle should go around one time, and back to zero.

14) Be sure all adjusting screws and lock nuts are set. Loosen each locknut and backoff one turn. Screw the adjuster screw into the pocket until it contacts the adjuster. Hold the screw and tighten the lock nut.

Launch Adjustments

Single Spring installed in Spring Pocket:

With the clutch set at .702" with zero turns at adjusting screw = 270 lbs. One clockwise (in) turn of the adjuster screw at each location will increase the spring pressure.

One full turn of screw = 20 lbs. 20 lbs times 6 screws = 120 + 270 @ .702" = 390 lbs. ½ turn at each screw will equal 60 lbs…60 + 270 = 330 lbs.

Dual Springs installed in Spring Pockets:

With the clutch set at .702" with zero turns at adjusting screw = 450 lbs. One clockwise (in) turn of the adjuster screw at each location will increase the spring pressure.

One full turn of screw = 35 lbs. 35 lbs times 6 screws = 210 + 450 @ .702" = 660 lbs. ½ turn at each screw will equal 105 lbs…105 + 450 = 555 lbs.

Weight Adjustments

Size	Description	Weight	Material
¼" x ½"	Bolt	5.5g	Steel
¼" x ¾"	Bolt	6.5g	Steel
¼" x 1"	Shoulder Bolt	8.5g	Steel
¼" x 1-1/4"	Shoulder Bolt	9.5g	Steel
¼"	Thin Washer	1g	Steel
¼"	Flat Washer	2.2g	Steel
¼"	Jam Nut	2g	Steel

Figure D