



Street Twin Clutch Installation Instructions

All assemblies should be balanced to the flywheel you are replacing. Street Twin assemblies are not Pre-Balanced from the factory. Allow 500 city miles (1200 shift cycles) break-in period before hard driving.

When performance driving, all traction control devices must be turned off or clutch slippage will occur.

- 1) Inspect clutch assembly before disassembly. See Figure. 1. Note alignment marks.

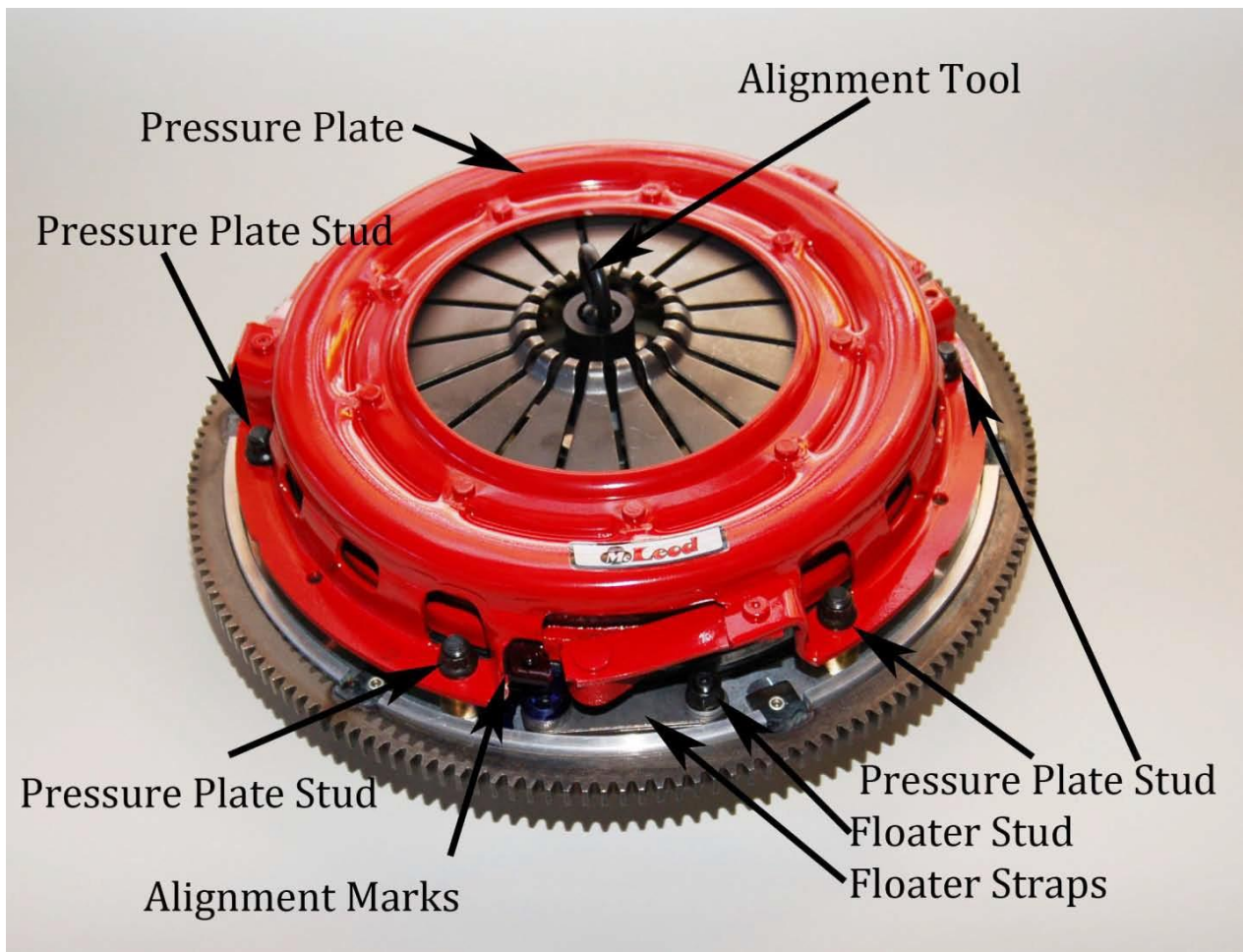


Figure 1

- 2) Unbolt pressure plate by removing six nuts. **Note alignment mark (blue paint) on pressure plate, floater and flywheel. These must be in same position when re-assembling components.**

- 3) Remove top disc and alignment tool. Notice the hub on the disc is cupped toward the transmission. Also note the "Flywheel Side" sticker on the disc center. See Figure 2

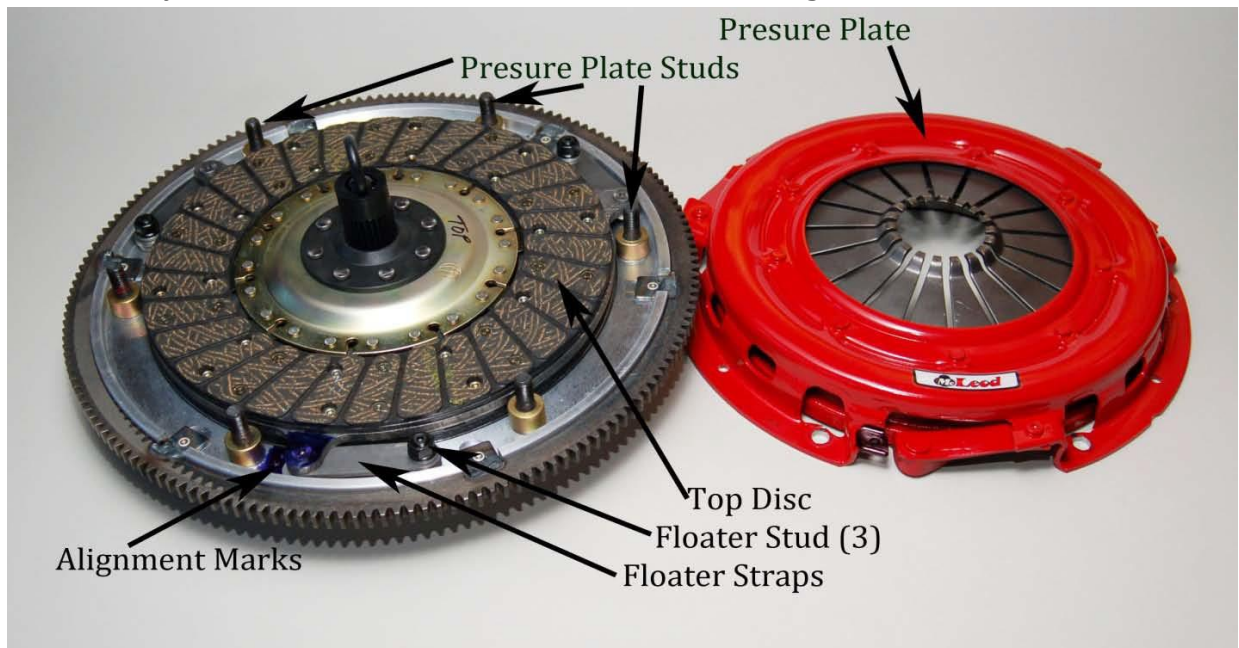


Figure 2

- 4) Remove the three nuts that hold the floater straps onto the flywheel. Remove the floater assembly. Note the straps on the floater are on the flywheel side. Do not remove the straps from the floater! There are six large studs and three small studs in the flywheel. There is a series of spacers (stands) and shims on these studs. Do not mix these parts. Install nuts onto studs to prevent the spacers and shims from falling off the studs during flywheel installation!
- 5) Remove the bottom disc. Notice the hub on the disc is cupped toward the transmission. Also note the "Flywheel Side" sticker on the disc center. See Figure 3

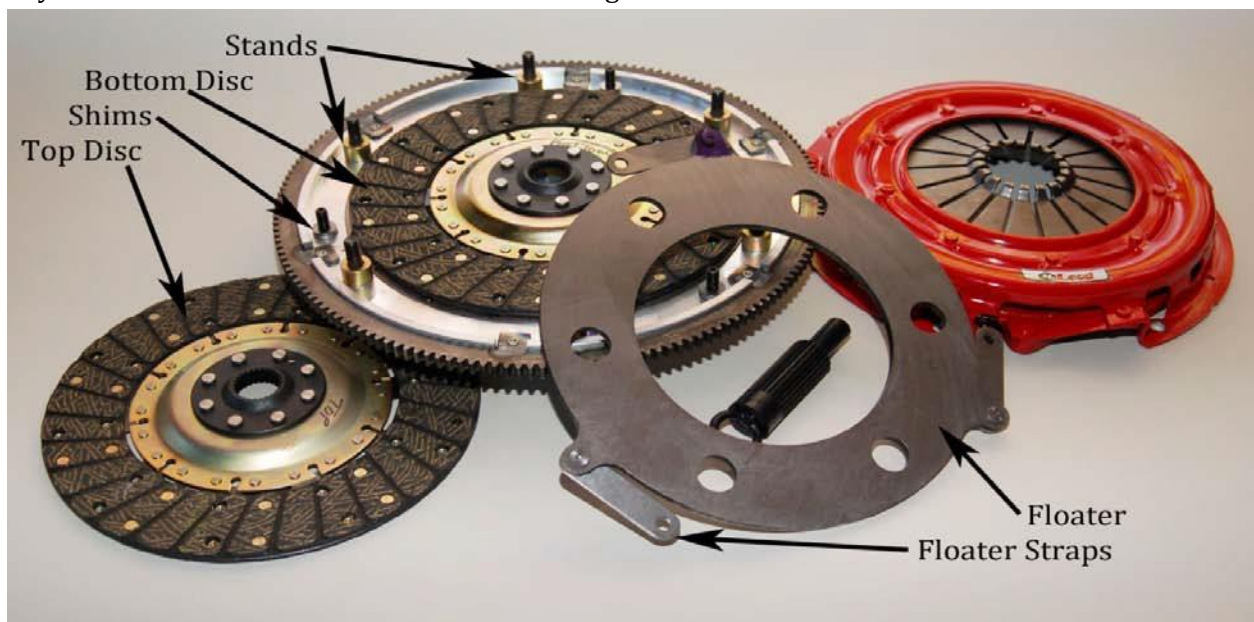


Figure 3

- 6) Inspect the crankshaft at this time. Remove any dirt from the crank and clean the pilot hole. A wire brush can be used. Inspect the pilot bushing; if worn or damaged replace it at this time. Install flywheel onto crank using high quality crank bolts. Torque bolts to factory specifications.
- 7) Remove the three small nuts from the floater studs. Be sure the shims do not fall off the studs. Install the bottom disc with the sticker on the flywheel side to the front.
- 8) Install the floater onto the studs. Be sure to note the alignment marks. Floater straps must be on flywheel side. Install the three nuts and tighten to 25 ft. lbs. Check disc clearance at this time. You should have .020" - .025" clearance. Insert the pilot tool and rotate the disc. There should be a slight amount of front to back movement. If there is more than .025" clearance the floater will push the top disc into the pressure plate, resulting in no clutch release. If the clearance is less than .020" the bottom disc will drag on the flywheel and the floater resulting in no clutch release. If there is too much or too little clearance you may have dropped some of the shims or placed them on the wrong stud. Call the factory tech line before you proceed further. If all is correct re-tighten the three floater nuts on each stud to 25 ft. lbs. **Do not use Loctite on these nuts!**



- 9) Install top disc. Be sure the "Flywheel Side" sticker on the disc is to the front. Insert and rotate the pilot tool all the way into the pilot bushing to align both discs. Remove the nuts from the six large studs. Do not allow the stands or shims to fall off the studs.
- 10) Install the pressure plate onto the six studs. Be certain to note the alignment marks. Install lock washers and then nuts onto the studs and tighten to 35 ft. lbs. **Do not use Loctite on these six pressure plate studs!**
- 11) Complete the bell housing, transmission and driveline installation.

Chrysler Applications: If helper spring is mounted under the dash on the clutch pedal, remove it. Allow more free play at throw-out bearing than normal. When engaging transmission into reverse from neutral it should not grind into gear. If grinding occurs there may be insufficient clutch release, caused by too little throw-out bearing travel.

Important Clutch Installation Hints

The following check list is a reminder of the necessary inspection points and precautions required to insure a trouble-free clutch installation.

Installation / Do's

- 1) Determine cause of original clutch failure. Cause of first clutch failure (if not wear) MUST be found and corrected. If oil is present on clutch plate, cause of leak MUST be corrected before installation of new clutch unit.
- 2) Check splines on transmission input shaft for signs of abnormal wear or twisting. Slide new disc on spline by hand gently to check fit. Disc should move **FREELY** on splines.
- 3) Remove ALL oil or grease from friction surfaces on flywheel and cover assembly. Surfaces MUST be clean and dry. Also clean input shaft spline with a wire brush. Lubricate with dry graphite spray if needed.
- 4) To insure proper operation, friction surface of flywheel MUST be resurfaced. Check dowel pins, they must be smooth and straight.
- 5) If throw-out bearing is worn, replace it, better now than later.
- 6) Closely inspect pilot bearing or bushing for excessive wear to avoid transmission shaft misalignment. Replace it if any doubts.
- 7) Use clutch alignment tool to insure disc and cover are properly aligned with pilot bearing.
- 8) If using an aftermarket scatter shield/bell housing, checking center hole run-out is highly recommended.
- 9) Be sure all special type bolts, if any, are replaced in their proper locations.
- 10) Torque all clutch cover bolts evenly, to factory recommended spec, using a progressive "criss-cross" tightening pattern.
- 11) Before completing installation, inspect all clutch linkage parts (fork, clevis, pins, etc.) for signs of wear and replace ALL worn pieces. Grease all pivot points in linkage system.
- 12) Adjust clutch pedal "free play" to correct specifications. Throw-out bearing should not be tight against clutch fingers. 1/8" - 1/4" is recommended, except cable linkage.

Installation / Don'ts

- 1) Don't let any grease or oil contact ANY friction Surface.
- 2) Don't use an impact (air gun) to tighten cover bolts.
- 3) Don't let transmission weight rest on input shaft during installation.

Torque Specs

5/16-18 Grade 8	25 Ft/Lbs
3/8-16 Grade 8	35 Ft/Lbs
7/16-20 Grade 8	65 Ft/Lbs
1/2-20 Grade 8	75 Ft/Lbs

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