



Before installation

For modular engine applications, if you are using an aftermarket bellhousing and block plate, you may need to enlarge the center hole of the block plate by $\frac{1}{4}$ inch. Aftermarket block plates are thicker and may contact the rear flange of the flywheel causing a rub and loud noise when the clutch is disengaged.

For 05-up applications, proper release bearing preloading is essential to operation of this clutch due to the hydraulic release mechanism. You **MUST** use the setup drawing located on the back of the quick start guide to check this before finishing the install. 2011 - up applications require removal of the factory slave cylinder spacer. Please see 'understanding factory hydraulics'.

Test fit both discs on the input shaft of the transmission. Make sure they slide freely on the splines.

If you are using an aftermarket bellhousing, it **MUST** be dial indicated to the engine before installing the clutch. These bellhousings typically are not centered and can cause release issues if not addressed.

For 86-04 Mustang applications, it may be necessary to trim the input collar $\frac{1}{2}$ inch to allow the transmission to fully install into the bellhousing without contacting the clutch disc. RAM recommends a scattershield in 5.0 applications to avoid clutch interference with the bellhousing. An adjustable pivot ball should be used with all 5.0/5.8L applications to achieve the proper fork angles. 4.6L applications should use Lakewood pivot ball 15502

For Mustangs utilizing a T-56 transmission with an aftermarket 26 spline input shaft, you must check to insure you have complete spline engagement on the bottom disc. Some older retrofit inputs have shorter splines and may not properly engage the bottom disc.

IMPORTANT TECHNICAL NOTE:

The 2010 up GT500 uses a different slave release bearing and clutch than the previous models. A RAM hydraulic bearing kit 78175 is **REQUIRED** for installing this clutch in these GT500 applications.

Clutch installation

Remove the 6 pressure plate attachment bolts from the flywheel. Notice the proper orientation of the pressure plate on the flywheel. Be sure the unit is installed this way. Lift the cover from the flywheel. The top disc is a sprung hub configuration. After removing the sprung hub disc you will see the floater plate.

The floater plate drives off of the three straps mounted to the flywheel, which are bolted in position. This is how the floater should fit when installing the unit in the car.

Remove the three 5/16-18 capscrews and lift the floater plate out of the assembly. The solid hub bottom disc can now be removed.

Install the flywheel loctite or similar thread locker on the flywheel bolts. Torque the flywheel bolts to 75-85 ft/lbs.

Slip the top clutch disc (sprung hub disc) onto the clutch alignment shaft followed by the floater plate and bottom clutch disc (solid hub). **Be sure the floater plate side that has the machined outer lip is facing the transmission** (i.e. the completely flat side towards the flywheel).

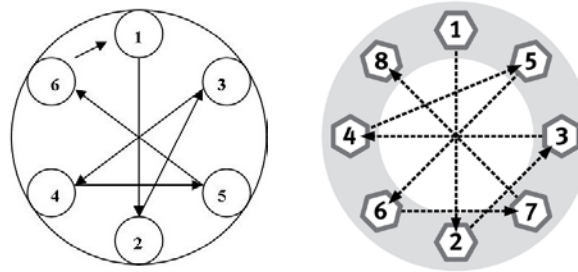
Slide the clutch alignment tool into the pilot bushing while positioning the floater plate over the drive lugs. The three retaining straps should line up with the three 5/16-18 holes on the flywheel surface.

Install the three 5/16-18 capscrews through the strap into the flywheel (note: the straps should line up without any repositioning). Use a threadlocker on the capscrews.

At this point make sure the floater plate should have a slight gap between the friction surface and the bottom disc.

Place the pressure plate over the stand bolts and **torque the cover nuts, tightening them in a star pattern as shown below so that the diaphragm is pulled down evenly**. Be sure the cover drive straps are **staggered with the floater straps** and that each stand has its shims between the cover and the stand.

COVER TORQUING SEQUENCE



STEP 1 – snug nuts down in a star pattern to 10 ft/lbs. STEP 2 – repeat star pattern tightening the nuts to 18 ft/lbs. STEP 3 – repeat star pattern tightening nuts to 25 ft/lbs. STEP 4 – repeat star pattern tightening nuts to 30 ft/lbs. NEVER USE POWER TOOLS TO PERFORM THIS PROCESS OR DAMAGE TO THE DIAPHRAGM CAN OCCUR.

The bellhousing and transmission can now be reinstalled. Be very careful not to let the transmission hang on the clutch disc spline during reassembly as this may bend the clutch disc carrier, which will cause release problems. **THIS IS CRITICAL!**

Adjustment

Mechanical & Cable linkages

Adjust your pivot ball to achieve a forward attitude (drivers side pivot) or rearward (pass. Side pivot) on the clutch fork when the bearing is just touching the fingers. Set the release low to the floor, maximum freeplay. If this is not comfortable then use a pedal stop to avoid excessive release.

Pivot Balls/Brackets/Release Bearings

An adjustable pivot ball should be used with all 5.0/5.8L applications to achieve the proper fork angles described above. 4.6L applications should use Lakewood pivot ball 15502. Small and Big Block Late model apps (passenger side pivot) require release bearing 501, early model apps (drivers side pivot) should use release bearing 485.

Other modifications

RAM STRONGLY ADVISES THE USE OF A SAFETY BELLHOUSING WITH THE RAM STREET DUAL. If you have enough power to need a dual disc, you need this safety device!

When using a safety bellhousing, be sure to follow the manufacturers instructions for proper bellhousing alignment.

IMPORTANT NOTICES

PROPER FLYWHEEL BOLT TORQUE IS CRITICAL WHEN INSTALLING YOUR RAM STREET DUAL CLUTCH SYSTEM. RAM STRONGLY RECOMMENDS AFTERMARKET FLYWHEEL BOLTS FOR YOUR APPLICATION.

7/16" BOLTS – 85 FT/LBS. ½" BOLTS – 135 FT/LBS. 10mm BOLTS – 65-70 FT/LBS. 11mm BOLTS – 80-85 FT/LBS.

USE A HIGH QUALITY AFTERMARKET BOLT SET AND RED LOCTITE ON THE THREADS. GO THROUGH THE TORQUE SEQUENCE 3 TIMES. RAM FLYWHEEL BOLT SET PART NUMBERS:

7/16 X 1 PN 575 ½ X 1 (8 BOLT) PN 596 10mm – 1 x 1 (4.6L Ford Modular 6 bolt) PN 529 10mm – 1 – 1 (Ford modular 8 bolt) 11mm – 1.5 x .880 (LS1) PN 528