

GENERAL SERVICING AND MINIMUM SPECS – RAM BILLET DRAG RACING CLUTCHES

Servicing - The more frequently your clutch assembly is serviced the more consistent your performance will be. By following the directions below you will obtain maximum performance from your clutch assembly.

Steel Surfaces - Should be belt sanded flat. Use a 40-60 grit sanding belt and replace the belt frequently so that the finished surface has a nice finish and does not become polished. If you decide to use a flywheel grinder on the steel surfaces be sure to check the flatness of the surfaces after grinding. Tapered friction surfaces will not perform well.

Bronze Floater - Should be sanded each time you service the clutch assembly. The floater can be sanded either on a belt sander or by hand with a sanding block. Use a 40-60 grit belt and replace it frequently.

Clutch discs - Should be surfaced with a diamond tipped tool on a turntable. Lightly go over the finished surface with a shop cloth after turning. Periodically check your clutch machine to ensure the machine is cutting the surface true from inside to outside Never resurface clutch discs with a grinding stone as this will reduce the clutches ability to wear and the performance of your clutch system.

Pressure Plates - Inspect the pressure plate each time you service the clutch. Check the underside of the cover for any cracks in the cover plate. Periodically remove the 5/16" pin and check for galling. Apply a small amount of anti-seize to the 5/16" pin upon reassembly. Check the levers for uneven wear or burrs. If burrs are present this may indicate that you may need to replace the release bearing.

Flywheel - To resurface the flywheel remove the stand bolts and belt sand the friction surface. When reinstalling the stand bolts use the cover to pull the bolts back into the flywheel. Always use loctite on the flywheel bolts and torque them often.

SFI Specifications	Spec	Recertification
Single disc components	1.1	2 years
Pro Stock, Comp components	1.2	2 years
Fuel racing components	1.3	1 year
Alcohol racing components	1.4	1 year
Pro Mod N2O and blown	1.5	1 year

Minimum tolerances - wear components

Flatness - pressure ring/flywheel inserts	.002-.003"
	Warp must be to inside of plate
Clutch discs - new	.350-.365"
Clutch discs - worn out	.280-.300"
Floater plates - new	.290-.300"
Floater plates - worn out	.250" or less
Inserts - pressure ring and flywheel	.190" or less or based on warpage

How to check flatness on inserts: Straight edge across the friction surface, the gap to the inside should not fit a .003" feeler gauge

Nitrous	Blown	P/M - outlaw	P/S	T/S	O/PS
Major components service life	P/M-outlaw	P/M - outlaw	P/S	T/S	O/PS
Pressure ring	2 yr	1 yr	2 yr	2 yr	1 yr
Cover plate	1 yr	1 yr	2 yr	2 yr	1 yr
Flywheel	3 yr	2 yr	2 yr	2 yr	1 yr
Levers	1 yr	1 yr	2 yr	2 yr	1 yr
Hardware	1 yr	1 yr	2 yr	2 yr	1 yr

RAM reserves the right to deem any part unfit for competition and elect not to return that part to the owner.