

Tech Note 090

Clutch Brakes for TTK Kits

Ref: TN090

Issue Date: Apr 2015

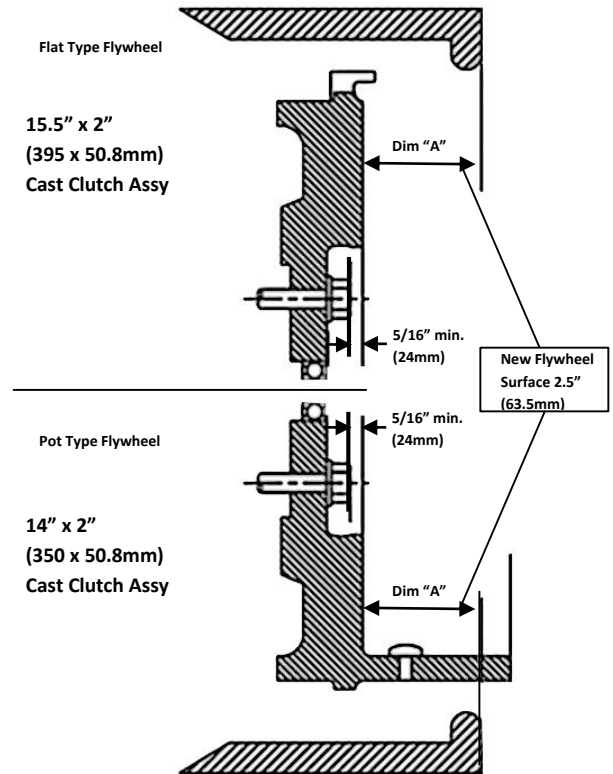
Issue Number: 1

When to Use an Oversized Clutch Brake

Every clutch replacement requires flywheel resurfacing. The use of ceramic friction materials requires more material be removed in the resurfacing process. This results in the clutch assembly being moved closer to the engine and away from the transmission. Pre-adjustment of the clutch to compensate for a larger "clutch envelope" results in diminished adjustment during the life of the clutch or can even cause malfunction within the clutch assembly. After installing the resurfaced flywheel, determine dimension "A" as shown in the drawing to the right. Then select the corresponding clutch brake (Hinged or Torque Limiting) from the charts below. Installing a thicker clutch brake will minimize the amount of clutch pre-adjustment and maximize the life of the clutch.

Hinged Locking Clutch Brakes

The purpose of the clutch brake is to slow down or stop the transmission input shaft from rotating when the clutch pedal is depressed. Now you can replace worn or damaged clutch brakes without removing the transmission. They are easy to install and are secured with a bolt – a 5/32" Allen Key is included.



Torque Limiting Clutch Brakes

Part No.	Description	Dim "A"
A239	1 3/4" (0.380" thick) 44.75mm (9.6mm thick)	2.5" – 2.57" 63.5 – 65.2mm
M-1834	1 3/4" (0.500" thick) 44.75mm (12.7mm)	2.66" – 2.72" 67.5 – 69mm
A240	2" (0.380" thick) 50.8mm (9.6mm thick)	2.5" – 2.57" 63.5 – 65.2mm
M-1782	2" (0.450" thick) 50.8mm (11.4mm thick)	2.57" – 2.66" 65.2 – 67.5mm
M-1783	2" (0.500" thick) 50.8mm (12.7mm thick)	2.66" – 2.72" 67.5 – 69mm

Installation Suggestion – Use a drop of Loctite® on the bottom of the thread.

Hinged Clutch Brakes

Part No.	Description	Dim "A"
M-1918	1 3/4" (0.380" thick) 44.75mm (9.6mm thick)	2.5" – 2.57" 63.5 – 65.2mm
M-1393	2" (0.380" thick) 50.8mm (9.6mm thick)	2.5" – 2.57" 63.5 – 65.2mm
M-1882	2" (0.450" thick) 50.8mm (11.4mm thick)	2.57" – 2.66" 65.2 – 67.5mm
M-1883	2" (0.500" thick) 50.8mm (12.7mm thick)	2.66" – 2.72" 67.5 – 69mm
M-1917	2" (0.550" thick) 50.8mm (13.9mm thick)	2.72" – 2.77" 69 – 70.3mm
M-1881	2" (0.380" thick) 50.8mm (9.6mm thick)	2.5" – 2.57" 63.5 – 65.2mm

IMPORTANT NOTES

Most TTK kits are supplied with a standard thickness clutch brake however there are instances where an oversized clutch brake will be required. These oversized clutch brakes are available for purchase separately but cannot be swapped from the clutch kit.

AUTOSET & OTHER SELF-ADJUSTING CLUTCHES

When replacing a self-adjusting clutch, it is critical that you use an oversized clutch brake. Measure "Dimension A" and select an appropriate thickness clutch brake to ensure the correct performance of the clutch.