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How To Determine The Correct Clutch Brake For Medium & Heavy-Duty Vehicles

When installing a cast-iron pressure plate assembly onto a resurfaced flywheel, a thicker clutch brake may be needed in order to maximize the adjustment capacity of the clutch. That's because resurfacing a flywheel will move the installed clutch further away from the transmission. Once the flywheel thickness is determined, it is possible to determine the appropriate clutch brake thickness. Note: All Class 7-8 vehicles using a cast-iron pressure plate assembly have been designed with an OEM dimension of 2.50" from the engine housing flange (where the transmission is bolted) to the friction surface of a new flywheel.

Measurement Procedure:

1. With the flywheel mounted to the engine. Place a straight edge or machinist ruler across the engine housing flange. Pot-type flywheels may extend past the engine flange (**See Figure 1**). If so, proceed to step 2b.

2a. Flat Flywheels: Using a dial caliper, measure the distance from the flywheel friction surface to the straight-edge (don't include the straight-edge thickness). Record the distance.

2b. Pot Flywheels: Place a straight-edge on the pot type flywheel. Using a dial caliper, measure from the flywheel friction surface to the straight-edge. Record the distance. Again, using the dial caliper, measure from the engine housing flange to the straight-edge. Subtract this distance from the previously recorded distance.

3. This distance is referred to as Dimension A, and it should be 2.50" or greater.

If Dimension A is 2.50", the flywheel meets the OEM thickness.

If Dimension A is greater than 2.50", the flywheel has been resurfaced.

If Dimension A is greater than 2.73", the flywheel should be replaced.

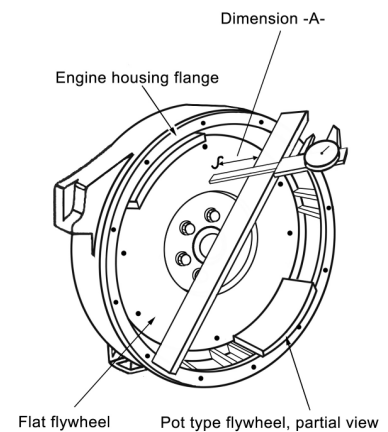


Figure 1

4. Refer to the chart to determine the appropriate clutch brake style and thickness.

AMS Number	Style	Spline Size	Clutch Brake Thickness	Dimension A
CB175-1	1-Piece	1.75" x 10T	0.39"	2.50" - 2.57"
CB200-1	1-Piece	2.00" x 10T	0.39"	2.50" - 2.57"
CB175-1H	2-Piece Hinged	1.75" x 10T	0.39"	2.50" - 2.57"
CB175-2H	2-Piece Hinged	1.75" x 10T	0.45"	2.58" - 2.66"
CB175-3H	2-Piece Hinged	1.75" x 10T	0.50"	2.67" - 2.73"
CB200-1H	2-Piece Hinged	2.00" x 10T	0.39"	2.50" - 2.57"
CB200-2H	2-Piece Hinged	2.00" x 10T	0.45"	2.58" - 2.66"
CB200-3H	2-Piece Hinged	2.00" x 10T	0.50"	2.67" - 2.73"
CB175-1TL	Torque Limiting	1.75" x 10T	0.39"	2.50" - 2.57"
CB175-3TL	Torque Limiting	1.75" x 10T	0.50"	2.67" - 2.73"
CB200-1TL	Torque Limiting	2.00" x 10T	0.39"	2.50" - 2.57"
CB200-2TL	Torque Limiting	2.00" x 10T	0.45"	2.58" - 2.66"
CB200-3TL	Torque Limiting	2.00" x 10T	0.50"	2.67" - 2.73"

- Installing a new flywheel eliminates the need for a thicker clutch brake.