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68RFE Overdrive Big Stack

16 Overdrive Friction Surfaces

Part #	Description	Mechanical holding capacity
1062035	Overdrive Shaft & QT100 Reaction Plates	+33%
1062036	BD Big Stack + Machined Sonnax drum	+54%

Clutches not included. To be used in conjunction with a BD Build-it Transmission Kit 1062023 OR 1062025.

1062036 Includes a machined Sonnax drum to work with the 16 OD clutch pack.

BD Engine Brake Inc.

Plant Address: 33541 MacLure Rd. Abbotsford, BC, Canada V2S 7W2

U.S. Shipping Address: 88-446 Harrison St, Sumas, WA 98295 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295
Phone: 604-853-6096 | Fax: 604-853-8749 | Internet: www.bd-power.com

Introduction

The BD Big Stack consists of 16 overdrive clutches, made possible with an improved OD shaft with increased spline depth, and two billet QT100 reaction plates. This allows for a 33% increase in mechanical torque holding capacity and a 33% increase in steel thermal mass. The billet QT100 plates reduce clutch coning due to the stiffer material and geometry.

The BD Big Stack can be used in conjunction with a Sonnax input drum to allow a 16% increase in apply area. This setup will allow for a 54% increase in mechanical torque holding capacity. An electronic pressure enhancer (1030369) will further increase OD torque holding capacity.

Kit Contents

1062035

1600159	1600178	1600179
		
BD Overdrive Shaft Qty: 1	Reaction Plate; OD/UD Qty: 1	Reaction Plate; OD/Rev Qty: 1

1062036

1600159	1600178
	
BD Overdrive Shaft Qty: 1	Reaction Plate; OD/UD Qty: 1
1600232	M1600233
	
Drum Kit; Sonnax Machined Qty: 1	Machined Bolt-On Plate Qty: 1

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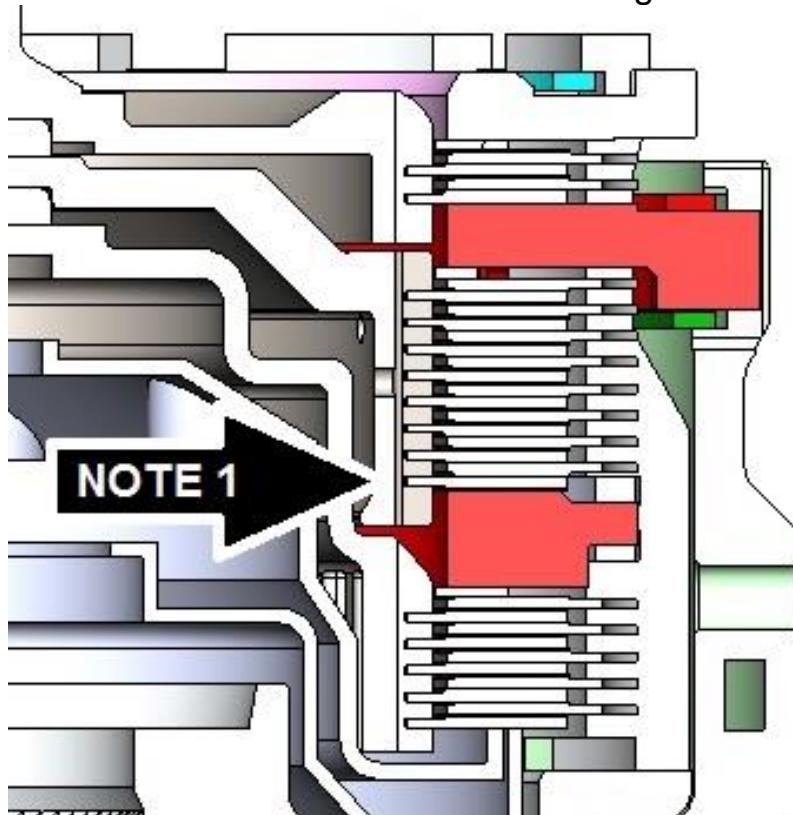
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Clutch Clearances

Item No.	Description	Clutch Part Number	Clutch Pack Clearance	Quantity
A	Underdrive Clutch Pack	B29308L & B29309L	.040-.055"	5+5
B	Overdrive Clutch Pack	B29308L & B29309L	.040-.055"	8+8
C	Reverse Clutch Pack	B29308L & B29309L	.025-.040"	2+2*

*Replace the OEM 2+1 double sided clutches with single sided 2+2



NOTE 1: The OD clutch pack is different than a standard build. The internally splined OD clutch must be installed first with the friction surface facing downward.

Note 2: The tapered section of the OD/UD reaction plate (1600178) must be facing upward.

Note 3: Designed to fit with Borg Warner single sided clutches. Alternate clutches may cause reduced clutch pack clearances which can cause premature failure.

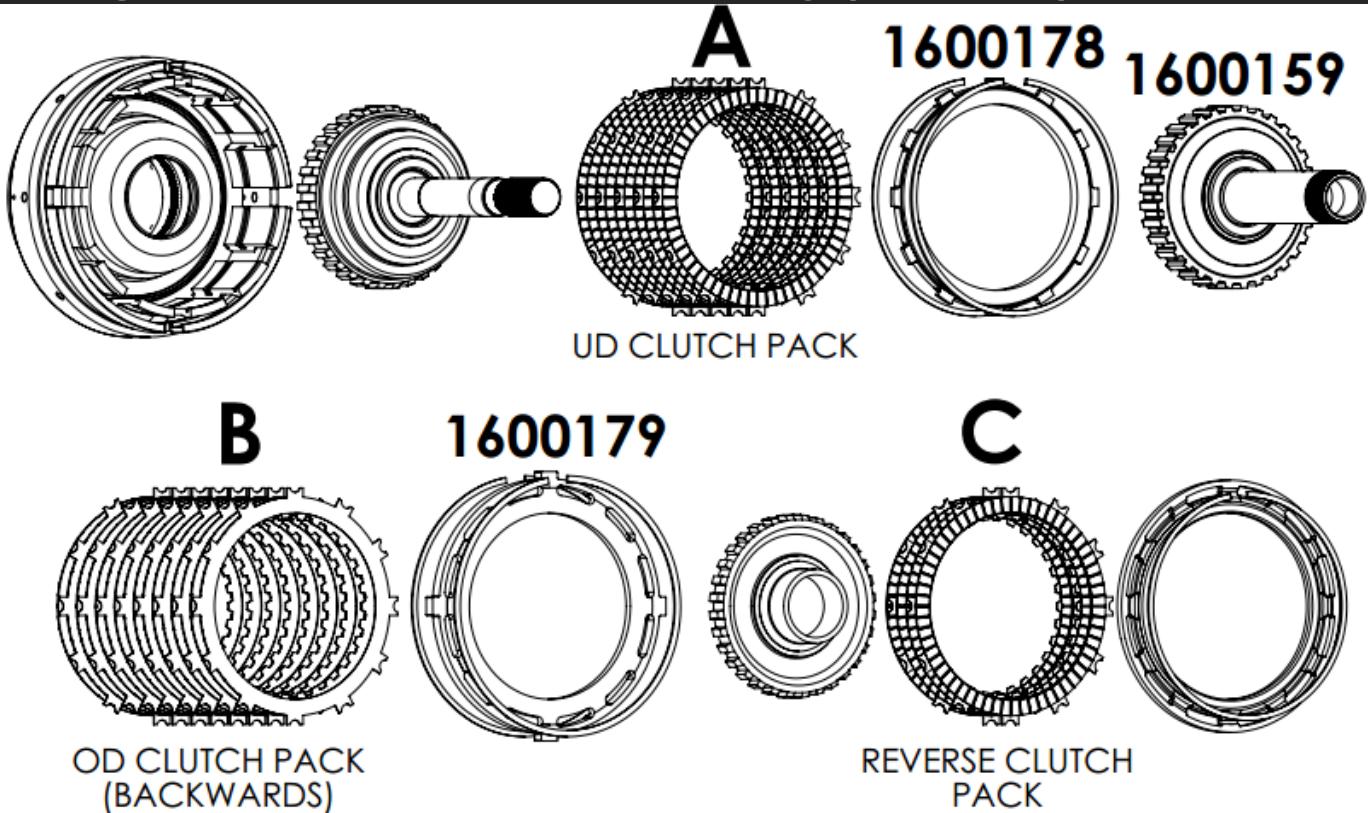
Note 4: OEM snap rings MUST be used

Note 5: The standard Sonnax build will require one Anchor Shim Plate to meet the OD clutch pack clearance requirements.

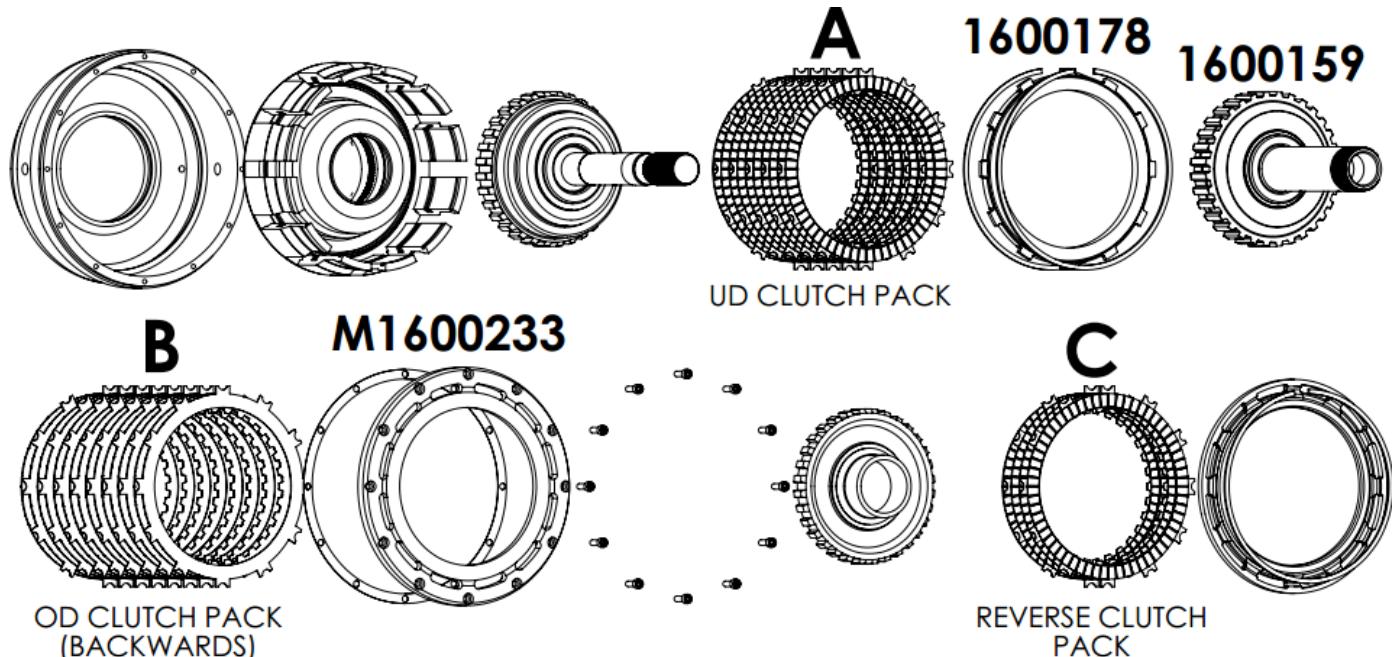
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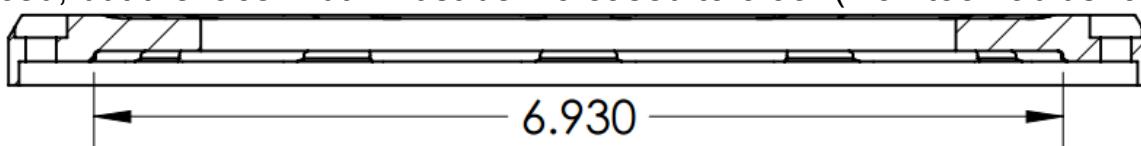
BD Big Stack + OEM Drum Assembly (1032035)**BD Big Stack + Sonnax Drum Assembly (1062036)**

See Sonnax PN 72960-06K instructions to assemble the Sonnax drum.



Any purchased kit from BD will have all necessary machining complete.

If purchased from a separate vendor, the Sonnax bolt-on plate must be machined to fit the upside-down OD clutch plates. The bolt-on plate does not need to be resurfaced, but the face width must be increased to 6.93" (max tool radius .032").



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