

APPLICATION

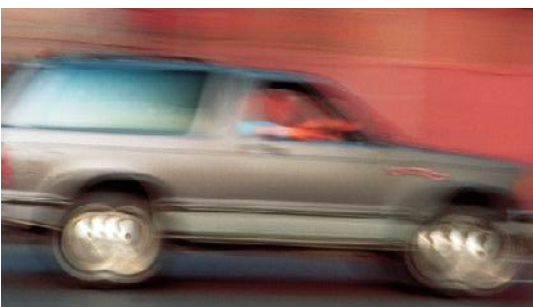
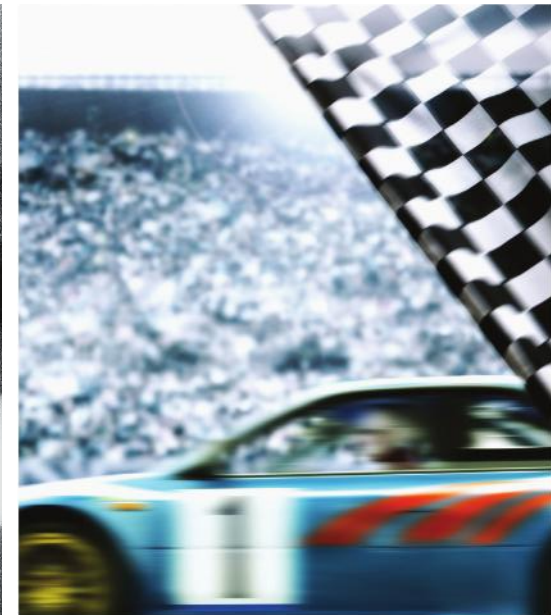
2 0 0 8 R E F E R E N C E G U I D E



Raybestos
POWERTRAIN

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DEDICATED TO PERFORMANCE



RAYBESTOS® POWERTRAIN IS THE INDUSTRY LEADER
IN BRINGING INNOVATIVE SOLUTIONS
TO THE AFTERMARKET



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Raybestos® Powertrain

Application Guide for Technicians

Raybestos Powertrain is one of the largest distributors of transmission-related friction products in the world, supplying the next generation of OE and OE-quality products for automotive, heavy-duty use, racing and performance. Raybestos Powertrain products include OE and aftermarket bands, clutch plates, torque converter wafers and Clutch-Pack® modules for the automotive aftermarket that meet or exceed OEM specifications for the applications. In addition, Raybestos Powertrain has established strategic alliances with Filtertek™, Magnefine®, NTZ®, and Means to be the aftermarket distributor of OE filters and steel plates.

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What is the Raybestos Powertrain Application Guide for Technicians?

In the world of friction products, there are a variety of friction materials for nearly every application. As a result, the single most common question asked is **“Which friction plate should I use for this specific vehicle?”**

In response to your inquiries, the Raybestos Application Guide for Technicians was created to help you select the best combination of friction products, steel reaction plates, filters, electrical components, and other transmission products to deliver maximum performance and durability for every rebuild. You can now customize the combination of Raybestos Powertrain products for the type of service the vehicle will see.

Using the Raybestos Powertrain Application Guide for Technicians

(1)
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MANUFACTURER - TRANSMISSION

Application

Years of
Coverage

INDUSTRY
#

AXIOM

DACCO

TRANSTAR

WIT





RAYBESTOS

OEM #














(2)

(3)

For each clutch pack, you may have several clutch or OE equivalent material options. The first column (4) (see below) indicates a specific friction material or type of product. To the right of the material column is an example followed by a description of what each material is best suited for (5). When making your final selection, this information is critical.

<p>Tan (4)</p>		<p>WHAT IS IT? OE approved material for passenger car applications. The Raybestos tan friction material is an affordable and dependable choice for standard rebuilds. Also included is the High Static tan which is an OE approved material used to maximize torque capacity in specific holding applications.</p> <p>RECOMMENDED USAGE: Standard or “stock” rebuilds common to passenger cars and light trucks.</p> <p>(5)</p>
<p>High Energy</p>		<p>WHAT IS IT? A unique blend of Kevlar® providing smooth engagements that can withstand surface temperatures up to 800°F and manufactured for both the OE and aftermarket.</p> <p>RECOMMENDED USAGE: The best choice for typical late model domestic and import passenger cars and trucks.</p>
<p>Severe Duty</p>		<p>WHAT IS IT? A wet-laid paper incorporating the heritage of the Raybestos Blue Plate Special® gen2™ material, but modified and designed for very specific demands and torque requirements. This new material is blended to outperform the OE in durability and friction coefficients.</p> <p>RECOMMENDED USAGE: Allison 1000/2000 Series transmissions.</p>
<p>Graphitic</p>		<p>WHAT IS IT? A paper based friction material blended with graphite, which serves as not only a lubricant, but can “store” engagement heat until the engagement is complete. Stored heat is then released more slowly and evenly into the steel plate, reducing warpage.</p> <p>RECOMMENDED USAGE: Limited slip differentials, off-highway, bus, and truck applications.</p>

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		<p>WHAT IS IT? The Raybestos Z Pak™ is a patented clutch pack system engineered to evenly distribute and reduce high temperatures and stresses in shifting applications. As a result, both capacity and durability of the clutch pack are increased. The Z Pak™ greatly exceeds the OE pack.</p> <p>RECOMMENDED USAGE: An optimum choice for SUVs, trucks, and commercial applications requiring improved apply geometry for optimum engagement and holding.</p>
		<p>WHAT IS IT? Stage-1 Performance Frictions are an economical performance solution that fills the gap between “stock” tan plates and the gen2™ Blue Plate Special®. They offer greater holding capacity, durability, and less wear than other red performance plates.</p> <p>RECOMMENDED USAGE: Front and rear wheel drive domestic and import or “Tuner” performance applications making less than 600 horsepower.</p>
		<p>WHAT IS IT? gen2™ Blue Plate Specials® are engineered for the serious racer and hardcore street/strip cars. With the highest available torque capacity and the least amount of wear of any performance friction plate on the market, the gen2™ Blue Plate Specials® can absorb the power of today's hardcore street cars, on up to alcohol funny cars.</p> <p>RECOMMENDED USAGE: Serious high performance applications where horsepower figures exceed 500 hp.</p>
<p>RayFlex™ Band</p>		<p>WHAT IS IT? Manufactured with OE approved friction material, the flex band is less weight than older rigid shifting bands, and due to the formed shape, these bands release as quickly as the servo will allow.</p> <p>RECOMMENDED USAGE: A great choice for stock rebuilds in light trucks and passenger cars, and are available for most domestic applications.</p>
<p>Pro-Series™ Band</p>		<p>WHAT IS IT? An affordable high-energy flex band that addresses the problem of high temperature associated with repetitive up and down shifting, as well as high load or high torque applications.</p> <p>RECOMMENDED USAGE: These bands are recommended for performance and heavy duty applications, especially where the original band can no longer withstand vehicle performance modifications or overworking.</p>
<p>OE Bands</p>		<p>WHAT IS IT? OE bands consist of rigid, semi-rigid and flex bands that Raybestos supplies to GM and Chrysler Corporation.</p>
<p>Steel Plates</p>		<p>WHAT IS IT? Raybestos Powertrain distributes both OE and aftermarket steel reaction plates with a controlled flatness and micro finish for optimum performance. Specialty OE steels are also available, including turbulator steels for specific holding applications, which help to keep the clutch pack from dragging when it is not engaged.</p>
<p>Clutch-Pack® Modules</p>		<p>WHAT IS IT? Clutch-Pack® friction modules are available for most domestic and import applications and contain the maximum number of clutch plates for all the clutch drums and brakes in your specific transmission. Blue Plate Special® Clutch-Pack® modules are also available, and for specific applications, as a friction/steel combo. Both Stage-1 and Blue Plate Special® Clutch-Pack® friction modules contain thin friction plates for specific clutch packs, to provide maximum capacity without resorting to a thinner steel reaction plate to gain space.</p>
<p>Filters</p>		<p>WHAT IS IT? The Raybestos Powertrain filter line includes patented designed OE filters and premium quality aftermarket filters for most domestic and import applications. Other filters include thimble, solenoid, and in-line type.</p>
<p>Miscellaneous</p>		<p>WHAT IS IT? In addition to friction products, steel reaction plates, and filters, Raybestos Powertrain also offers sprags, pan magnets and specific electronic components that either are OE, match the OE, or surpass the OE in performance and durability.</p>

MERCEDES - 722.0 (W3A040) - 722.1 (W4B025) - 722.3 (W4A040)
MERCEDES - 722.4 (W4A020) - 722.5 (W5A030) - 722.6 (W5A330 - W5A580)

	Application	Years of Coverage	INDUSTRY #	AXIOM	DACCO	TRANSTAR	WIT	RAYBESTOS	OEM #
Clutch-Pack® Modules	Clutch-Pack® Module - 722.4 (W4A020)	84-94						RCP96-021	
	Clutch-Pack® Module - 722. (W3A040) - 722.1 (W4B025)	70-82						RCP96-023	
Tan	1ST - 2ND - 3RD - 4TH - .097 (2.46 MM)	70-82						R559735	112-272-02-25
	1ST - 2ND - 3RD - 4TH - .085 (2.16 MM)	70-82						R559730	112-272-02-25
	KS OVERRUN - .082 (Waved)	90-96				R55108		R559770	124-2772-01-25
	B2 (External Spline)	96-UP	78112			R55118	R572600	R572600	220-272-17-26
	4TH (K2)	81-95	68100B			R55102		R559745	126-272-07-25
High Energy	DIRECT (K1)	84-95				R55106		R559760	123-272-02-25
	4TH (K2)	84-94				R55105		R559755	123-272-01-25
	K2 (SMALL ID)	96-01	78108			R55116	R572610	R572610	210-272-00-25
	REVERSE (B3) - .082 (Waved)	84-95				R55107		R559765	201-272-00-25
	REVERSE (B3) - .079 (Waved)	81-95	68110B			R55104		R559750	126-272-09-25
	B3 - .063	96-UP	78110			R55119	R572625	R572625	140-272-06-25
	DIRECT (K1)	81-95				R55103	68106B	R559740	126-272-06-25
	K1 - .085	95-UP	78114			R55115	572605	R572605	140-272-00-25
	B1 - .085	96-01	78114			R55115	572605	R572605	140-272-00-25
	KS OVERDRIVE 5TH - .082 (Waved)	90-96	68102C			R55109		R559775	124-272-00-25
	K3 .085	96-97	78102			R55117A	R572620	R572620	140-272-07-25
	K2 (Large ID) - .082	96-UP	78108A			R55116A	R572615	R572615	140-272-01-25
Filters	Rect. Type - No Neck (4 Bolt Pan)	70-80	58010					515865	115-270-0398
	Rect. Type - 1" Neck (4 Bolt Pan)	72-80	58010A					515867	109-270-0298
	Rect. Type - 3/4" Neck(4 Bolt Pan) ...	72-80	58010B					515866	123-270-0098
	4 Speed, 190 D & E (6 Bolt Pan)	81-98	68010A					515868	126-277-0295
	w/ SLIDING VALVE	91-97	A68010C					515864	129-277-095
	PAN (722.3)	91-UP						515988	460-277-0195

NOTES