ASBESTOS USE IN FRICTION MATERIALS

Friction Materials	Design Responsibility	Basic Component Part Number(s)	Specification(s)	Supplier(s)	Alternative - Status
Primary lining rear drum brakes.	Chassis	2284	ES-Part Number (numerous)	Bendix Kelsey-Hayes Wagner Electric Raybestos Thickol Thermoid ABEX	• NO substitute for drum brakes. • Bendix and ABEX claim they will submit alternates in the 4th quarter 1979 for evaluation. • NO substitute for semi-metallic disc brake backing. • Bendix claims substitute. • TO plan exists to phase out asbestos from brakes.
Secondary lining rear drum brakes.	Chassis	2285			
Outer disc front brakes.	Chassis	2021			
Inner disc front brakes.	Chassis	2022			
Converter reactor.	Trans. & Axle	7934 7937	ESW-M3D117-A	Chicago Molded Diecolding Plastic Moldings Hooker-Durez (Fab) Rogers (Fab)	• Return to aluminum for performance. • 200,000 lbs. of Hooker-Durez 23639 stock piled for Ford phase out.
Thrust washer auto. trans.	Trans. & Axle	7936 7937	ESW-M3D81-A ESW-M3D97-A ESW-M3D108-A	Hooker-Durez (Canadian) Union Carbide	• ESP-M3D119-A replaces ESW-M3D81-A supplied by Norplex. • Hooker-Durez supply from Canada.
Band Assembly	Trans. & Axle	7A176 7D095 7D034 7A162	Part Number (numerous)	Spring Brummer Kelsey-Hayes Raybestos	• Active program to find substitutes erected by Ford letter. • 1980 Mustang/Capri 3.3L/SROD clutch disc. assy. contains non-asbestos substitutes. • 1980 Econoline C6 transmission, contains non-asbestos substitutes. • FIOD-II will probably be asbestos free. • ATX will have some non-asbestos substitutes. • Raybestos policy is to be out of asbestos by 1982 will push efforts for non-asbestos substitution.
Plate Assembly (trans.)	Trans. & Axle	7E312 7E311 7B169 7E313 7F219		Spring Brummer Raybestos	
Clutch disc assy. friction facings.	Trans. & Axle	7550 7549		Borg & Beck Luk Alma Thermoid Porter (Fab) Raybestos (Fab)	
Plate Assembly (axle)	Trans. & Axle	4747 41329		Spring Brummer Raybestos	

Vehicle Materials Engineering
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ATTACHMENT II

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