105582

Ford Motor Company

Brake Assembly and Lining Suppliers

(Original Draft 12/20/82)

(Revised 2/24/83)

007872

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PASSENGER CARS

DISC BRAKE ASSEMBLY

(Front and Rear)

Year	Brake Assembly Supplier	Brake Lining Supplier
1961 - 1982	Bendix Corporation	Bendix Friction Materials Division
	Kelsey-Hayes	Thiokol Chemical (1967-1982)
	Wagner Electric (1961-1968)	Raybestos Manhattan (1961-1974)
	Budd Company (1967-1974/small quantity)	Johns-Manville (1961-1974)
	Teves & Culpeper (1978-1982)	Thermoid Division, H.K. Porter (1961-1968; 1974-1977)
		Delco-Moraine Division of G.M. (1967-1974)
		Borg Warner (1975)
		Universal Manufacturing Company (1961-1968/minor supplier)

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PASSENGER CARS and LIGHT TRUCKS

DRUM BRAKE ASSEMBLEY

(Front and Rear)

Year	Brake Assembly Supplier	Brake Lining Supplier
1960 - 1982	Bendix Corporation	Bendix Friction Materials Division
	Kelsey-Hayes	Raybestos Manhattan (1960-1971)
	Wagner Electric (1960-1981/cars only)	Thermoid Division, H.K. Porter (1960-1971)
	Budd Company (1960-1974/5)	Johns-Manville (1960-1971/some involvement)
	Raybestos Manhattan (1978-1982/cars only)	Abex Corporation (1982/semi-metallic linings)
	Varga (Brazil) (1980-1982)	
	Eaton Corporation (1980/cars only)	

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LIGHT TRUCKS

DISC BRAKE ASSEMBLY

Year	Brake Assembly Supplier	Brake Lining Supplier
1970 - 1982	Bendix Corporation	Bendix Friction Materials Division
	Dayton Walther	Raybestos Manhattan (1970-1978)
	Kelsey-Hayes (1970-1978)	Royal (1980-1982/some; Canadian company)
	Thiokol Chemical (1970-1973/possible supplier)	

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MEDIUM/HEAVY TRUCKS

Year	Brake Assembly Supplier	Brake Lining Supplier
	Air Brakes - Front and Rear	Air Brakes - Front and Rear
1970 - 1982	Rockwell International	Raybestos (1973-1982)
	Eaton Corporation	Bendix Friction Materials Division (1976-1982)
	Wagner Electric (1976-1982/front)	Abex Corporation (1976-1982)
	Bendix Corporation (1972-1976)	Carlisle (1976-1982)
1970 - 1982	Hydraulic Brakes - Front and Rear	Hydraulic Brakes - Front and Rear
	Wagner Electric	Bendix Friction Materials Division (1973-1982)
	Bendix (1970-1976)	Thiokol Chemical (1973-1976)
	Kelsey-Hayes (1970-1973; 1976-1982)	Abex Corporation (1976-1982)
		Carlisle (1976-1982)
		Raybestos Manhattan (1976-1982)

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MEDIUM/HEAVY TRUCKS (cont'd)

Year	Brake Assembly Supplier	Brake Lining Supplier
	Disc - Front	Disc - Front
1973 - 1976	Kelsey-Hayes	Johns-Manville (some involvement)
	Drum	Drum
1972 - 1980	Wagner Electric	Bendix Friction Materials Division (1972-1979)
	Kelsey-Hayes (1972-1979)	Thiokol Chemical (1976-1979)
	Bendix (1972-1979)	
	Rockwell International (1972-1976; 1980)	
	"Wedge" Brake - Front and Rear	"Wedge" Brake - Front and Rear
1970 - 1973/ 1976 - 1982	Bendix	Bendix Friction Materials Division (1976-1982)
		Abex Corporation (1976-1982)
		Carlisle (1976-1982)
		Raybestos Manhattan (1976-1982)

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MEDIUM/HEAVY TRUCKS (cont'd)

Year	Brake Assembly Supplier	Brake Lining Supplier
	Air-Over Hydraulic Brake - Heavy Truck/Front	Air-Over Hydraulic Brake - Heavy Truck/Front
1976 - 1982	Kelsey-Hayes	Bendix Friction Materials Division
		Abex Corporation
		Carlisle
		Raybestos Manhattan

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SPECIAL ORDER VEHICLES

CARS

*Majority of brake assemblies used are regular production brakes for new cars (suppliers already identified).

Year	Brake Assembly Supplier	Brake Lining Supplier
	Police Fleets	Police Fleets
1962 - 1982	Dana Corporation (specialty axles with Bendix brakes)	Bendix Friction Materials Division (1969-1972; 1979-1982)
	Bendix Corporation (1979-1982)	Raybestos-Manhattan (1969-1972)
		Borg-Warner (1969-1972)

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SPECIAL ORDER VEHICLES

TRUCKS

Years	Brake Assembly Supplier	Brake Lining Supplier
	Military Trucks	
1962 - 1971	Wagner Electric	
	Kentucky Truck Plant	**Kentucky Truck Plant**
1962 - 1982	Rockwell International	Abex Corporation
	Eaton Corporation	
	Wagner Electric (front end only)	

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MUTT VEHICLES

Year	Brake Assembly Supplier	Brake Lining Supplier
1959 - 1972	Unknown	Unknown
1972 - Unknown	Wagner Electric Co.	World Bestos Company Brake Lining Co. of America P. T. Brake Lining Co., Inc. Friction Materials Division, Bendix Corp.

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JEEPS

Ford Model GP

Year	Brake Assembly Supplier	Brake Lining Supplier
1941 to Unknown	Bendix	Unknown
	Kelsey Hayes	

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AFTER MARKET PARTS

New (DEALERS)

(Drum and Disc Brakes)

Year	Brake Assembly Supplier	Brake Lining Supplier
1968 to Present	Bendix Corporation	Bendix Friction Materials Division
	Kelsey Hayes	Raybestos Manhattan
	Wagner Electric (not currently)	Abex Corporation

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AFTER MARKET PARTS

Ford Authorized Remanufacturers (FAR)

(Drum Brake Linings Only)

Year	Brake Lining Supplier
Unknown to 1982	Abex Corp., Friction Products Group
	Bendix Corp., Automotive After Market Operation
	Bendix Corp., Friction Materials Division
	Carlisle Corporation
	Dayton-Walther Corporation
	Eaton Corp., Brake Division
	Johns-Manville Sales Corp.
	Kelsey-Hayes Co.
	Joseph Lucas North America, Inc.
	Pak-Rite Industries
	H. K. Porter Co., Inc.
	Raybestos-Manhattan, Inc.
	Rockwell International
	Alfred Teves, Inc.
	Toyo Kogyo Co., Inc.
	Wagner Electric Corp.

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