

Ford Motor Company
Brake Assembly and Lining Suppliers

(Original Draft 12/20/82)

(Revised 2/24/83)

8005 0099

PRODUCED BY FORD

PASSENGER CARS

DISC BRAKE ASSEMBLY

(Front and Rear)

<u>Year</u>	<u>Brake Assembly Supplier</u>	<u>Brake Lining Supplier</u>
1961 - 1982	Rendix Corporation Kelsey-Hayes Wagner Electric (1961-1968) Budd Company (1967-1974/small quantity) Teves & Culpeper (1978-1982)	Rendix Friction Materials Division Thiokol Chemical (1967-1982) Raybestos Manhattan (1961-1974) Johns-Manville (1961-1974) 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 ASSEMBLY

(Front and Rear)

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

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LIGHT TRUCKS

DISC BRAKE ASSEMBLY

<u>Year</u>	<u>Brake Assembly Supplier</u>	<u>Brake Lining Supplier</u>
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

<u>Year</u>	<u>Brake Assembly Supplier</u>	<u>Brake Lining Supplier</u>
1970 - 1982	<u>Air Brakes - Front and Rear</u>	<u>Air Brakes - Front and Rear</u>
	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	<u>Hydraulic Brakes - Front and Rear</u>	<u>Hydraulic Brakes - Front and Rear</u>
	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)

<u>Year</u>	<u>Brake Assembly Supplier</u>	<u>Brake Lining Supplier</u>
1973 - 1976	<u>Disc - Front</u>	<u>Disc - Front</u>
	Kelsey-Hayes	Johns-Manville (some involvement)
	<u>Drum</u>	<u>Drum</u>
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)	
1970 - 1973/ 1976 - 1982	<u>"Wedge" Brake - Front and Rear</u>	<u>"Wedge" Brake - Front and Rear</u>
	Bendix	Bendix Friction Materials Division (1975-1982)
		Abex Corporation (1976-1982)
		Carlisle (1976-1982)
		Raybestos Manhattan (1976-1982)

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MEDIUM/HEAVY TRUCKS (cont'd)

<u>Year</u>	<u>Brake Assembly Supplier</u>	<u>Brake Lining Supplier</u>
1976 - 1982	<u>Air-Over Hydraulic Brake -</u> <u>Heavy Truck/Front</u> Kelsey-Hayes	<u>Air-Over Hydraulic Brake -</u> <u>Heavy Truck/Front</u> 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).

<u>Year</u>	<u>Brake Assembly Supplier</u>	<u>Brake Lining Supplier</u>
	<u>Police Fleets</u>	<u>Police Fleets</u>
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

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

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MUTT VEHICLES

<u>Year</u>	<u>Brake Assembly Supplier</u>	<u>Brake Lining Supplier</u>
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

<u>Year</u>	<u>Brake Assembly Supplier</u>	<u>Brake Lining Supplier</u>
1941 to Unknown	Bendix Kelsey Hayes	Unknown

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AFTER MARKET PARTS

New (DEALERS)

(Drum and Disc Brakes)

<u>Year</u>	<u>Brake Assembly Supplier</u>	<u>Brake Lining Supplier</u>
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.