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Annual Industry Report

A-66



Iron and Steel and Their Products Group

The Automobile Parts Industry is a division of the iron and steel group and the statistics for the industry, as presented in this bulletin, cover only the factories which made metal parts and accessories as their chief products. Parts, such as tires, batteries, brake linings, etc., which were made in other industries are not covered by this report, except in the supplementary summary of the total output of parts from all industries (Table 5). Other automobile materials, such as lacquers, upholstering, etc., are not mentioned at all as the Bureau has no separate record of the output of these articles for automobile use. Data given in Tables 1 to 4 and 7, therefore, refer only to the manufacture of auto parts of iron and steel, while Table 5 summarizes the total production of parts of all kinds as specified separately on the Census of Industry reports.

One hundred and thirty-seven establishments were included in the Automobile Parts Industry in 1948, distributed, by provinces, as follows: Ontario, 92; Quebec, 13; British Columbia, 11; Alberta, 11; Manitoba, 5; Saskatchewan 3 and New Brunswick 2. Production from these plants was valued at \$140,068,414, an increase of 6.5 per cent over the total of \$131,513,510 in 1947.

In 1948 this industry afforded employment to a monthly average of 16,388 people who were paid \$39,226,370 in salaries and wages, while in the previous year there were 17,487 workers with earnings of \$36,559,864.

Among the products made by firms in this industry were: automobile engines, bodies, differentials, transmissions, radiators, spark plugs, self starters, axles, piston rings, wheels, laminated glass, trailers, springs, bumpers, tire valves, steering gears, hubs, lubricating systems, tire chains, etc. Many of these parts were made by only one or two plants in Canada, so production figures for such items cannot be published separately. Table 3 shows output figures in as much detail as is possible for this industry.

Total specified production of parts and accessories from all industries, including tires, batteries, radios, etc., amounted to \$270,104,636 in 1948 compared with \$264,454,555 in 1947. Details are listed in Table 5.

Table 1 - PRINCIPAL STATISTICS OF THE AUTOMOBILE PARTS INDUSTRY, 1944-1948

Year	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
1944	104	20,366	38,671,730	2,171,569	84,155,653	160,195,390
1945	108	17,390	33,115,867	1,937,402	65,897,750	126,562,829
1946	124	15,348	27,808,618	1,659,068	43,519,483	93,428,899
1947	128	17,487	36,559,864	2,075,025	65,430,940	131,513,510
1948	137	16,388	39,226,370	2,341,108	70,004,484	140,068,414
Per cent change, 1948 from 1947 ..	...	-6.3	+7.3	+12.8	+7.0	+6.5

Note: Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, etc.

Automobile Parts

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Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1947 and 1948

Province	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
1947						
Quebec	15	523	811,050	27,661	733,510	1,704,729
Ontario	82	16,424	34,660,883	1,999,481	63,201,359	126,539,070
Manitoba	4	145	267,115	13,015	413,653	795,267
Alberta	13	145	275,553	8,346	220,359	804,755
British Columbia	10	207	468,290	18,553	770,527	1,448,187
Saskatchewan ...	2)	43	76,973	7,969	91,532	221,502
New Brunswick ..	2)					
CANADA	128	17,487	36,559,864	2,075,025	65,430,940	131,513,510
1948						
Quebec	13	342	654,683	33,848	606,671	1,557,752
Ontario	92	15,532	37,456,791	2,256,395	67,909,084	135,299,940
Manitoba	5	135	256,511	13,379	379,344	742,976
Alberta	11	130	265,877	8,859	348,258	804,892
British Columbia	11	200	492,301	19,436	671,174	1,382,292
Saskatchewan ...	3)	49	100,207	9,191	89,953	280,562
New Brunswick ..	2)					
CANADA	137	16,388	39,226,370	2,341,108	70,004,484	140,068,414

Table 3 - PRODUCTS MADE IN THE AUTOMOBILE PARTS INDUSTRY, 1947 and 1948

Product	1947		1948	
	Quantity	Selling value at works	Quantity	Selling value at works
Axles and axle shafts .....	...	\$ 3,784,679	...	\$ 3,809,093
Battery cables and ground straps .....	...	341,349	...	396,647
Bodies and cabs: For dump trucks .....	...	2,284,039	...	1,957,201
For other trucks .....	...	3,378,606	...	5,522,461
For passenger cars .....	...	1,001,599	...	138,358
For buses .....	...	324,464	...	113,699
Brakes and parts .....	...	1,563,009	...	3,004,969
Bumpers and bumperettes .....	...	1,673,257	...	1,392,952
Hardware, automobile .....	...	891,812	...	1,887,184
Heaters, car	128,766	1,443,616	240,953	2,301,707
Headlights and parts .....	...	2,412,697	...	2,500,379
Oil filters and elements .....	...	882,851	...	1,723,972
Pistons	972,459	892,323	1,191,114	1,025,319
Piston rings	26,765,251	2,984,479	17,042,825	1,700,813
Piston ring expanders .....	...	98,841	...	87,429
Radiators, complete	232,140	3,297,218	230,931	3,723,762
Radiator cores .....	...	363,341	...	415,427
Shock absorbers	674,679	1,774,386	406,773	1,014,716
Spark plugs	17,629,186	4,230,519	14,623,798	3,821,547
Springs, auto chassis (flat and coil) ..	...	3,674,875	...	5,316,513
Wire assemblies (ignition) .....	...	1,949,428	...	1,759,969
Other automobile parts (x) .....	...	63,541,281	...	64,839,652
Trailers .....	...	4,205,145	...	3,868,513
Received for custom work and repairs ...	...	1,743,997	...	1,706,782
All other products (*) .....	...	22,775,699	...	26,039,350
TOTAL .....	...	\$ 131,513,510	...	\$ 140,068,414

(x) Includes products reported by less than 3 firms, such as engines, ignition coils, differentials, transmissions, wheels, windshields, steering gears, clutches, generators, distributors, etc.

(*) Includes iron castings, chain, oil burners, electric motors, etc.

Note: Data given in the above table are for the Automobile Parts Industry, which includes only the concerns that manufactured metal auto parts as their chief products. Figures for the individual items do not necessarily represent the total output for Canada as there may also have been an output by concerns classified to other industrial groups. For totals for Canada see Table 5.

Table 4 - MATERIALS USED IN THE AUTOMOBILE PARTS INDUSTRIES, 1947 and 1948

Material	Unit of measure	1947		1948	
		Quantity	Cost at works	Quantity	Cost at works
Iron and Steel -			\$		\$
Pig iron	ton	14,132	486,478	8,956	380,313
Iron castings	ton	29,619	4,267,368	13,064	3,243,929
Steel castings	ton	3,644	686,127	6,090	1,234,858
Bars and rods, steel	ton	36,658	3,084,198	37,378	3,805,303
Forgings, steel .....	...	...	1,600,206	...	1,786,658
Plates, steel	ton	3,512	251,653	3,354	324,704
Shafting, steel	ton	304	46,383	418	51,815
Sheets: Black	ton	14,578	1,293,611	13,233	1,382,967
Galvanized	ton	140	15,044	129	18,649
Tinplate	ton	342	47,735	474	105,163
Strip, steel	ton	9,444	1,144,480	12,395	1,476,281
Structural shapes	ton	8,206	1,312,316	8,615	795,046
Stampings, steel .....	...	...	975,964	...	1,162,380
Wire	ton	12,149	1,021,681	9,791	1,001,640
Alloy steel .....	...	...	2,930,176	...	3,812,876
Scrap iron and steel	ton	35,713	923,318	9,994	250,624
Other iron and steel .....	...	...	932,047	...	1,119,339
Ferro-alloys	ton	...	48,276	...	41,684
Non-ferrous Metals -					
Aluminum	pound	3,064,212	666,243	2,261,610	568,126
Brass and bronze	pound	9,025,038	2,082,026	9,348,152	2,107,742
Copper	pound	5,207,636	1,631,001	4,931,490	2,223,991
Lead	pound	277,650	17,101	235,372	28,556
Nickel	pound	165,657	60,345	268,645	129,748
Tin	pound	550	467	832	821
Zinc	pound	1,615,153	173,962	1,929,560	261,665
Babbitt metals and solders ...	pound	1,208,571	373,454	1,580,323	742,882
Other non-ferrous metals .....	...	...	44,303	...	41,723
Other Materials -					
Foundry coke for cupola use ..	ton	9,904	169,418	6,830	148,979
Moulding sands	ton	40	215	25	133
Core sands	ton	16,179	45,842	12,138	34,111
Foundry facings	pound	2,806,640	91,156	1,892,510	57,901
Iron and steel pipe, tubing and fittings .....	...	...	376,556	...	600,283
Lumber	M ft.b.m.	9,671	935,045	7,609	741,629
Finished parts and accessories for assembling .....	...	...	14,825,016	...	26,073,215
Shipping containers .....	...	...	806,137	...	705,765
All other materials .....	...	...	22,065,592	...	13,542,985
TOTAL .....	...	...	65,430,940	...	70,004,484

Automobile Parts

Table 5 - PRODUCTION OF SPECIFIED AUTO PARTS AND ACCESSORIES, FROM ALL INDUSTRIES, 1947 and 1948

Note: Figures given in this table represent the total reported Canadian production of the commodities listed, regardless of the industry in which produced.

	Selling Value at Works	
	1947	1948
Axles and axle shafts	3,784,679	3,809,093
Batteries, storage (for autos)	11,186,151	13,048,841
Bodies and cabs: For dump trucks	2,284,039	2,086,408
For other trucks	5,752,096	6,872,720
For passenger cars	1,001,599	138,358
For buses	324,464	113,699
For other vehicles, n.e.s. .....	...	...
Brakes and parts	1,563,009	3,004,969
Brake linings, asbestos	1,644,478	1,621,861
Bumpers and bumperettes	1,673,257	1,392,952
Cables and wire assemblies	2,290,777	2,156,616
Chains, tire	1,767,864	1,833,300
Clutches	(x)	(x)
Clutch facings, asbestos	435,430	420,311
Coils, ignition	(x)	(x)
Differentials	(x)	(x)
Distributors	(x)	(x)
Engines	(x)	(x)
Engine valves	(x)	(x)
Fan belts, rubber	1,052,874	660,180
Generators	(x)	(x)
Glass, laminated, etc.	4,316,950	4,991,696
Hardware, auto	2,107,331	3,542,742
Heaters, auto and engine and defrosters	1,753,800	2,965,690
Headlights and parts	2,412,697	2,500,379
Hub and drum assemblies	(x)	(x)
Lubricating systems	(x)	(x)
Mufflers	(x)	(x)
Oil filters and elements	882,851	1,723,972
Pistons	892,323	1,025,319
Piston rings, expanders, etc.	3,083,320	1,788,242
Propeller drive shafts and universal shafts	(x)	(x)
Radiators, complete	3,297,218	3,723,762
Radiator cores	363,341	415,427
Radios for automobiles	2,472,198	2,117,407
Shock absorbers	1,774,386	1,014,716
Spark plugs and parts	4,230,519	3,821,547
Springs, chassis	3,674,875	5,316,513
Starters,	(x)	(x)
Steering wheels .....	...	...
Steering gear assemblies	(x)	(x)
Tie rods	(x)	(x)
Tires (casings and tubes)	101,428,557	92,545,000
Tire flaps and tire flap material	474,084	365,879
Tire valves and parts	(x)	(x)
Transmissions	(x)	(x)
Wheels	(x)	(x)
Windshields	(x)	(x)
Windshields wipers	(x)	(x)
Parts (service) made in automobile factories	34,898,377	41,128,493
Other auto parts and supplies, not specified as to kind	17,595,807	18,876,555
Value of products reported by only 1 or 2 firms as indicated above	44,035,462	45,081,989
TOTAL	264,454,555	270,104,636

(x) Indicates that the production figures cannot be published separately as the commodity was reported by only 1 or 2 plants.

Table 6 - IMPORTS AND EXPORTS OF AUTOMOBILE PARTS, 1947 and 1948

	1947	1948
Imports		
Parts of bodies for motor buses, electric trackless trolley buses, motor ambulances and hearses as enumerated in tariff item 4381	1,190,227	2,032,138
Front and rear axles, brakes, clutches, steering gears, magnetos, rims for pneumatic tires, transmission assemblies, drive shafts, universal joints, steel road wheels, and parts of a class or kind not made in Canada, all for the manufacture of motor trucks, buses, and trackless trolley buses or for the manufacture of chassis for same.	8,057,055	6,595,899
Automobile and motor vehicle parts, as enumerated in tariff item 438b	8,852,929	7,641,163
Automobile and motor vehicle parts as enumerated in tariff item 438c	5,083,502	3,555,895
Automobile and motor vehicle parts as enumerated in tariff items 438c1 and 438c2	29,978,147	35,151,890
Automobile parts, n.o.p., other than iron and steel, not electro-plated, whether finished or not, as enumerated in tariff item 438e3	14,282,067	14,534,872
Automobile parts, n.o.p., of iron and steel, not electro-plated, whether finished or not, as enumerated in tariff item 438e3	30,987,790	31,749,226
TOTAL IMPORTS	98,431,717	101,261,083

Exports

Automobile parts - Canadian made	20,141,614	15,339,688
Foreign made	1,752,943	2,245,782

Table 7 - EMPLOYEES, SALARIES AND WAGES IN THE AUTOMOBILE PARTS INDUSTRY, 1947 and 1948

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES			
	On Salaries		On Wages		Total						
	Male	Female	Male	Female							
1947											
Quebec	114	28	364	17	523	259,407	551,643	811,050			
Ontario	1,590	724	11,766	2,344	16,424	6,768,510	27,892,373	34,660,883			
Manitoba	22	6	111	6	145	79,106	188,009	267,115			
Alberta	26	5	111	3	145	87,129	188,424	275,553			
British Columbia	28	9	168	2	207	111,081	357,209	468,290			
Other provinces.	9	...	33	1	43	25,175	51,798	76,973			
CANADA	1,789	772	12,553	2,373	17,487	7,330,408	29,229,456	36,559,864			
1948											
Quebec	33	16	279	14	342	169,897	484,786	654,683			
Ontario	1,671	753	11,100	2,008	15,532	7,725,387	29,731,404	37,456,791			
Manitoba	24	4	102	5	135	92,775	163,736	256,511			
Alberta	16	4	110	...	130	64,549	201,328	265,877			
British Columbia	28	10	162	...	200	129,479	362,822	492,301			
Other provinces	9	...	39	1	49	36,172	64,035	100,207			
CANADA	1,781	787	11,792	2,028	16,388	8,218,259	31,008,111	39,226,370			

LIST OF FIRMS IN THE AUTOMOBILE PARTS INDUSTRY, 1948

Name of Firm	Address
<u>New Brunswick</u> -	
Saint John Spring Works Universal Sales Ltd.	81 Thorne Ave., Saint John Marsh St., Saint John
<u>Quebec</u> -	
Alfred Racine Enrg. Auto Radiator Mfg. Limited Automotive Spring Mfg. Co. Ltd. Dowty Equipment (Canada) Limited Drolet, Leon, et Fils Enrg. Economy Carburator Co. Ltd. Everite Automotive Radiators Ltd. Jennings Auto Body Co. Les Ateliers Prevost Inc. McRobert, C.A., & Son Limited National Spring Works Ltd. Roy Industries Reg'd Specialloid (Canada) Ltd.	900 St. Grégoire St., Montreal 960 Plessis St., Montreal 1409 William St., Montreal 999 Aqueduct St., Montreal 8-12 Caron St., Quebec 1260 Jean-Talon St., E., Montreal 995 St-Dominique St., Montreal 1165 St. James St., W., Montreal Ste-Claire de Dorchester 31 St. Viateur St., E., Montreal 1131 Aqueduct St., Montreal 7848 Henri-Julien St., Montreal 425 River St., Verdun
<u>Ontario</u> -	
A.J. Sales Co. Ltd. Adams, J.C., Company Limited Backs, L., & Co. Ltd. Bam Wheel Disc. Co. Ltd. Barry Body Builders Bendix-Eclipse of Canada Limited Bowes Seal-Fast Co. Ltd. Brantford Coach and Body Limited Canadian Acme Screw & Gear Limited Canada Motor Products Limited Canadian Motor Lamp Co., Ltd. Canadian Radiator Mfg. Company Canadian Top & Body Corporation Limited Champion Spark Plug Co. of Canada Limited Coady Bodies Conroy Manufacturing Company Limited Cozens Spring Service & Mfg. Co., Limited Court Radiator Plant Limited Dale Automotive Products Ltd. Detroit Gasket and Mfg. (Canada) Ltd. Dill Manufacturing Company of Canada Limited, The Doerr, Geo. C. Dominion Auto Accessories Ltd. Dominion Brake Shoe Co. Ltd. Dominion Cable & Automotive Products Dominion Chain Company Limited Dominion Truck Equipment Co. Limited Donaldson Company (Canada) Ltd. Dorel Manufacturing Co. Ltd. Eaton-Wilcox-Rich Limited Elcombe Engineering Limited Elder, Robert, Limited Electric Auto-Lite Limited Electroline Mfg. Co. Ltd. Essex Wire Corporation Limited Flaherty Manufacturing Co. Ltd. Flexo Mfg. Co. Ltd. Four Wheel Drive Auto Co. Ltd. Fruehauf Trailer Co. of Canada Ltd. General Motors of Canada Limited Gottfredson Limited Guelph Spring & Axle Co., Limited Hampson Products Hastings Ltd. Hawkeye Products Ltd. Hayes Steel Products Limited Ingersoll Machine & Tool Co., Limited Ilderton Trailer Sales	Erie St., Ridgetown 972 Queen St., W., Toronto 165 De Grossie St., Toronto 81 Portland St., Toronto 255 King William St., Hamilton 1473 Argyle Rd., Windsor 140 Oak Ave., Hamilton Pearl St. and 22 Mohawk St., Brantford 207 West Rd. S., Toronto 857 Queensway, Toronto 2429 Seminole St., Windsor 464 Front St. W., Toronto Louise St., Tilbury 1624 Howard Ave., Windsor 10 Shipman Ave., Toronto 55 Catharine St., St. Catharines 157 Queen St., E., Toronto 6-8 Frank St., St. Catharines 6 Scarlett Rd., Toronto Petrolia 103 Bathurst St., Toronto 229 Breithaupt St., Kitchener 104 Shelburne St., Toronto 50 Colborne St. E., Lindsay 139 Peter St., Toronto 800 Bender Ave., Niagara Falls 60 Ottawa St., S., Kitchener 277 William St., S., Chatham 227 Bay St., Midland 379 Pitt St., W., Windsor 3327 Russell St., Windsor 26 Scho St., Toronto Christina St., N., Sarnia 1305 Windsor Ave., Windsor 1664 Windsor Ave., Windsor 76 Wellington St. N., Hamilton 361 Sorauren Ave., Toronto 83 Union Blvd. Kitchener Main St. N., Weston Walkerville 605 Montreuil St., Windsor 24 Wellington St., Guelph 1392 Dufferin St., Toronto 390 Birchmount Rd., Toronto Chatham Merritt St., Merritton King St., W., Ingersoll Ilderton

List of Firms in the Automobile Parts Industry, 1948
 (Continued)

Name of Firm	Address
<u>Ontario (Concluded) -</u>	
Kelsey Wheel Co. Ltd.	309 Ellis Ave. E., Windsor
Kralinator Products Limited	Montrose St., Preston
Long Manufacturing Co., Limited	2744 Edna St., Windsor
McCord Corporation	890 Walker Road, Windsor
McKinnon-Columbus Chain Limited	Ontario St., St. Catharines
McKinnon Industries Limited, The	Ontario St., St. Catharines
McQuay-Norris Mfg. Co. of Canada Ltd.	Ray and Goddard Aves., Toronto
Midland Foundry and Machine Company, Limited	223 Bay St., Midland
Monohan Supply Corp. Ltd.	40 Front St., E., Toronto
Motor Products Corporation	Walker Road, Walkerville
National Auto Radiator Mfg. Co. Ltd.	667 Cataraqui St., Windsor
Ontario Steel Products Co. Ltd., Division "C"	105 St. George St., Chatham
Ontario Steel Products Co. Ltd.	Ritsom Road, Oshawa
Ontario Steel Products Co. Ltd.	King St., Guelph
Ontario Truck Body Co.	Fair Grounds, Newmarket
Perfect Circle Company Ltd., The	175 Wicksteed Ave., Leaside
Perfection Automotive Products Co.	315 Devonshire Rd., Windsor
Paul Wood Industries of Canada Limited	857 Tecumseh Rd. E., Windsor
Pollard Industries Ltd.	Harrow
Purolator Products (Canada) Ltd.	2429 Seminole St., Windsor
Reithby Commercial Bodies	42 Lawrence Ave., Weston
Ramsey Accessories Manufacturing Corporation (of Canada) Ltd.	29 Leslie St., Toronto
Reliable Radiator Co.	124 Kent St., Ottawa
Reliance Reconditioning Ltd.	71 Front St., E., Toronto
Schrader's, A., Son	334 King St. E., Toronto
Sealed Power Corporation of Canada Limited	182 King St., Stratford
Simplex Piston Ring Mfg. Co.	30 Berryman St., Toronto
Sinner Company Limited, The	Wolfe & Simcoe Sts., Oshawa
Smith Bros. Motor Body Works	310 King St. E., Toronto
Smith, Kirkoldy, Dennison Mfg. Co. Ltd.	Amherstburg
St. Catharines Auto Bodies	207 St. Paul St. W., St. Catharines
Sterling Automotive Supplies	553 Lincoln Rd., Windsor
Stewart-Warner Alemite Corporation of Canada Limited	MacDonald Ave., Belleville
Thompson Products Ltd. & Subsidiaries	37 Louth St., St. Catharines
Trailmobile Canada Limited	Ojibway
Trico Products Corporation	40 Courtwright St., Fort Erie
Truck Engineering Limited	165 Wellington St., S., Woodstock
Warner Gear Company Limited	325 Devonshire Road, Windsor
Watson Spring Co. Ltd.	370 King St. E., Toronto
Weatherhead Company of Canada Ltd., The	Inkerman St., St. Thomas
Welles Corporation Ltd.	2650 Metcalfe St., Windsor
Wilkening Manufacturing Co. (Canada) Limited	43 Britain St., Toronto
Wilson Motor Bodies Limited	1466 Lakeshore Rd., Long Branch
Wix Accessories Corporation Ltd.	11 Wabash Ave., Toronto
<u>Manitoba -</u>	
Carter, James B., Ltd.	85 Water Ave., Winnipeg
Chalmers Auto Truck and Body Works	Nairn Ave., Winnipeg
Manitoba Auto Spring Works	175 Fort St., Winnipeg
Ramblers Trailers	479 Osborne St., Winnipeg
Western Auto & Truck Body Works Ltd.	702 Broadway Ave., Winnipeg
<u>Saskatchewan -</u>	
Fudge's Snow Sedans	Moosomin
Modern Spring Service	311 Avenue A., South, Saskatoon
Western Spring Mfrs Ltd.	2047 Broad St., Regina
<u>Alberta -</u>	
Commercial Body Works Ltd.	1018 - 9th Ave. E., Calgary
De Luxe Auto Body Service	617 - 11th Avenue, W., Calgary
Edmonton Auto Spring Works	Jasper Ave. and 95th St., Edmonton
Hay & Harding, Limited	108 - 2nd Ave. W., Calgary
Lethbridge Spring & Axle Ltd.	402 - 4th St. S., Lethbridge

Automobile PartsList of Firms in the Automobile Parts Industry, 1948
(Concluded)

Name of Firm	Address
<u>Alberta</u> (Concluded) -	
Master Craft Trailer Co.	1430, 9th Avenue, East, Calgary
McArthur's Auto Spring Works	330 - 6th Ave. E., Calgary
Peerless Motor Products	216 - 12th Ave. W., Calgary
Sunnyside Auto Body Works	Cor. 4th Ave. and 10th St. N. W., Calgary
Tennant, Rex J.	813 - 3rd Ave. S., Lethbridge
<u>British Columbia</u> -	
Auto House Limited	1040 Hornby St., Vancouver
Collins Mfg. Co. Ltd.	356 - 2nd Avenue, W., Vancouver
Columbia Trailer Co. Ltd.	1475 Howe St., Vancouver
Commercial Body Builders	516 W. 8th Ave., Vancouver
Cords Piston Ring Co. of Canada Ltd.	834 Johnson St., Victoria
Dendoff Springs Ltd.	232 W. 2nd Ave., Vancouver
McAllister Spring Company Limited	1162 Seymour St., Vancouver
Pioneer Equipment Ltd.	960 Richards St., Vancouver
Ribchester, G.W., & Son, Ltd.	1253 Howe St., Vancouver
Willock Truck Equipment Company	205 West 2nd Ave., Vancouver
Motor Specialty Manufacturers	475 Clarke Drive, Vancouver