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ANNUAL



MOTOR VEHICLE PARTS AND ACCESSORIES MANUFACTURERS

1960

Formerly The Motor Vehicle Parts Industry.
Truck body and trailer production statistics
have been transferred to 42-217 -- Truck Body
and Trailer Manufacturers. (New title)

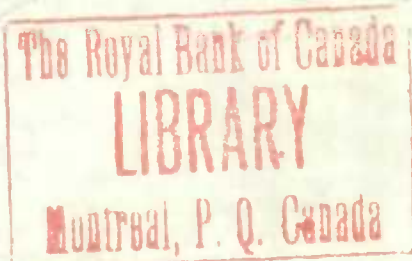
ANNUAL CENSUS OF MANUFACTURES

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SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.

EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1960 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1960 are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory; sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level, and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, ware-

housing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc. are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants or reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers

and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The revised Standard Industrial Classification which has been introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form. This practice was followed again in 1960.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

MOTOR VEHICLE PARTS AND ACCESSORIES MANUFACTURERS

1960

Data for 1960 presented in this report reflect implementation of the revised Standard Industrial Classification (S.I.C.) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 industry statistics—see item "Standard Industrial Classification" in the Explanatory Notes section of this report. The present report constitutes the first in this series for Motor Vehicle Parts and Accessories Manufacturers. For statistical purposes the industry titled Motor Vehicle Parts and Accessories Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing motor vehicle parts (except truck and bus bodies) and accessories for use on motor vehicles, such as engines, brakes, clutches, axles, gears, transmissions, wheels, frames, radiators, springs, automobile hardware, heaters, horns and mirrors. The manufacture of tires and tubes is classified in Industry No. 163—Tire and Tube Manufacturers; automobile glass in Industry No. 356—Glass and Glass Products Manufacturers; and batteries in Industry No. 337—Battery Manufacturers.

In many instances adoption of the new Standard Industrial Classification effected a radical shifting of manufacturing establishments as between industry groupings and the establishment of new industries as in the case of Motor Vehicle Parts and Accessories Manufacturers. This latter industry in accordance with the new S.I.C. concept is now comprised primarily of a major component of the old S.I.C. industry group "The Motor Vehicle Parts Industry". Firms reporting the manufacture of truck bodies and trailers as a major part of their operation have been transferred out of the old S.I.C. industry, Motor Vehicle Parts Industry, into a new industry "Truck Body and Trailer Manufacturers" and catalogue 42—217 will carry the relevant data.

In order to provide a statistical comparison an attempt has been made to re-compile 1957, 1958 and

1959 data on the revised Standard Industrial Classification basis. Figures on this basis are shown in Table 1.

There were 119 establishments classified as Motor Vehicle Parts and Accessories Manufacturers in 1960, there being 1 in New Brunswick, 10 in Quebec, 89 in Ontario, 4 in Manitoba, 4 in Saskatchewan, 5 in Alberta, and 6 in British Columbia. Employees in this industry numbered 15,402; salaries and wages totalled \$73,646,028; materials used in manufacturing processes cost \$151,093,080; and factory shipments were valued at \$286,871,543.

The establishments in this industry make motor vehicle parts and accessories as their main products. On the other hand some companies which have been classified to other industrial classes make motor vehicle parts and accessories as a secondary part of their business. Tables 1 to 4 and 6 to 10 of this report refer only to manufacturers of motor vehicle parts and accessories reporting these lines as their main products. Table 5 represents total factory shipments of motor vehicle parts and accessories from all industries.

Note: Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

**TABLE 1. Principal Statistics: Motor Vehicle Parts and Accessories Manufacturers,
by Provinces, 1957-60**

Basis: Standard Industrial Classification revised, 1960

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture ¹	Value of factory shipments
	number				dollars		
1957							
New Brunswick and Quebec	12	226	760,708	57,147	809,187		2,063,977
Ontario	87	16,931	70,011,309	4,205,522	142,406,349		265,514,050
Manitoba	4	213	679,856	28,013	835,237	2	2,831,941
Saskatchewan	2						
Alberta	7	75	315,452	12,522	305,554		718,003
British Columbia	6	55	204,569	15,696	183,460		517,237
Canada	118	17,500	71,971,894	4,318,900	144,539,787		271,645,208
1958							
New Brunswick and Quebec	13	194	692,314	46,220	889,514		2,193,139
Ontario	90	14,748	64,462,161	3,942,146	132,060,017		248,136,712
Manitoba	4	185	651,429	22,611	921,352	2	2,360,801
Saskatchewan	1						
Alberta	6	89	360,436	14,810	262,332		834,014
British Columbia	5	50	201,940	18,431	181,089		444,253
Canada	119	15,266	66,368,280	4,044,218	134,314,304		253,968,919
1959							
New Brunswick and Quebec	11	217	771,980	65,966	1,572,770		3,256,105
Ontario	84	14,916	70,103,719	3,936,629	145,223,420		266,377,568
Manitoba	4	303	909,944	32,272	1,429,728	2	3,507,071
Saskatchewan	2						
Alberta	6	89	350,487	16,649	274,153		895,146
British Columbia	6	62	257,276	21,415	259,093		638,639
Canada	113	15,587	72,393,406	4,072,931	148,759,164		274,674,529
1960							
New Brunswick and Quebec	11	214	768,719	59,645	958,233	1,215,126	2,185,724
Ontario	89	14,730	71,067,552	4,137,646	148,611,432	123,889,726	278,936,947
Manitoba	4	228	881,353	31,842	850,874	1,892,880	2,787,664
Saskatchewan	4	69	216,803	9,517	143,046	1,143,731	1,297,374
Alberta	5	98	443,013	21,832	274,179	677,032	974,200
British Columbia	6	63	268,588	22,567	255,316	414,320	689,634
Canada	119	15,402	73,646,028	4,283,049	151,093,080	129,232,815	286,871,543

¹ See note to text.

² The changeover to the new classification has delayed the recompilation of "value added" figures for these years and same will not be available until the next issue of this report.

TABLE 2. Inventories:¹ Motor Vehicle Parts and Accessories Manufacturers, 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
New Brunswick and Quebec	133,583	23,370	38,082	195,035
Ontario	18,619,824	15,864,057	13,643,098	48,126,979
Manitoba	523,410	140,686	330,101	994,197
Saskatchewan	152,631	101,332	21,283	275,246
Alberta	129,002	640	34,710	164,352
British Columbia	138,314	3,028	3,893	145,235
Canada	19,696,764	16,133,113	14,071,167	49,901,044
Closing:				
New Brunswick and Quebec	129,498	8,333	100,399	238,230
Ontario	16,670,535	13,270,797	13,938,215	43,879,547
Manitoba	438,610	173,594	285,125	897,329
Saskatchewan	232,416	100,200	21,335	353,951
Alberta	139,440	574	33,619	173,633
British Columbia	153,522	3,028	6,462	163,012
Canada	17,764,021	13,556,526	14,385,155	45,705,702

¹ Book value of all manufacturing inventories owned and held at plant and plant warehouses.

TABLE 3. Factory Shipments: Motor Vehicle Parts and Accessories Manufacturers, 1960

Product	Quantity	Value of factory shipments
		\$
Axles and axle shafts .....	..	6,953,180
Battery cables and ground straps .....	..	712,897
Brakes and parts .....	..	5,507,787
Hardware, automobile .....	..	4,094,926
Heaters (car and engine block) .....	..	3,014,641
Oil filters and elements .....	..	7,400,183
Pistons	No. 1,520,539	1,275,789
Piston rings	" 12,808,129	3,225,971
Radiators, complete .....	..	¹
Radiator cores .....	..	2,105,051
Spark plugs	No. 33,841,241	10,343,453
Springs, auto chassis (flat and coil) .....	..	10,940,163
Other automobile parts ¹ .....	..	190,157,767
Received from custom work and repairs .....	...	8,375,279
All other products ² .....	...	32,764,456
Total .....	...	286,871,543

¹ Includes products reported by less than 3 firms, such as engines, ignition coils, differentials, transmissions, wheels, windshields, steering gears, clutches, generators, distributors, etc.

² Includes iron castings, chain, oil burners, electric motors, etc.

Note: Data given in the above table are for Motor Vehicle Parts and Accessories Manufacturers, 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: Motor Vehicle Parts and Accessories Manufacturers, 1960

Material	Quantity	Cost at works
		\$
Iron and steel:		
Castings:		
Iron	ton 22,430	5,942,653
Steel	" 9,543	1,470,247
Pig iron	" 30,144	1,911,648
Bars and rods, steel	" 41,614	7,599,771
Plates, steel	" 8,791	1,458,214
Sheets:		
Black	" 40,188	6,201,513
Galvanized	" 1,537	292,047
Tinplate	" 1,464	268,203
Strip, steel	" 22,992	4,497,511
Structural shapes	" 2,623	351,213
Wire	" 4,186	864,191
Alloy steel in all forms:		
Stainless:		
Billets, bars and rods .....	..	77,569
Other .....	..	1,797,893
Other alloy and tool steel (including carbon, alloy and high speed steels):		
Billets, bars and rods .....	..	5,773,616
Other .....	..	381,554
Scrap iron and steel	ton 66,198	2,748,839
Iron and steel pipe, tubing and fittings .....	..	2,025,191
Other iron and steel .....	..	4,972,044
Ferro-alloys .....	..	323,347
Non-ferrous metals:		
Aluminum:		
Castings	pound 657,572	453,201
Sheet	" 264,402	114,803
Other forms	" 3,814,815	1,194,541
Brass and bronze	" 5,368,058	2,228,200
Copper:		
Sheet	" 1,080,309	502,344
Wire	" 3,953,204	1,992,921
Other forms	" 2,328,693	1,168,948
Lead	" 103,711	21,849
Nickel	" 1,056,814	869,386
Tin	" 79	87
Zinc	" 2,233,860	452,592
Babbitt metals and solders	" 1,198,299	462,259
Other non-ferrous metals .....	...	7,722
Other materials:		
Paints, oils and varnishes .....	..	280,166
Foundry coke for cupola use	ton 16,241	540,231
Foundry sands	" 28,357	91,207
Plumbago and graphite	pound 261,288	21,601
Lumber	M ft. b.m. 352	58,158
Firebrick and cupola blocks .....	..	36,684
Fireclay .....	..	60,766
Core oil	Imp. gal. 70,993	69,757
Shipping containers .....	..	1,950,256
Sulphuric acid, 100%	pound 202,847	9,069
All other material ¹ .....	...	89,549,068
Total		151,093,080

¹ No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$300,000. The total estimated value of materials used by these firms was \$1,889,501, and this amount is included in "All other material."

TABLE 5. Factory Shipments of Specified Motor Vehicle Parts and Accessories
(from All Industries), 1959 and 1960

Item	1959		1960	
	Number	Value of factory shipments	Number	Value of factory shipments
		\$		\$
Axles and axle shafts .....	..	6,477,000	..	6,953,180
Batteries, storage (for autos)	2,420,938	22,440,000	2,239,874	19,321,726
Truck bodies and cabs:				
Dump bodies (steel and aluminum, all types and sizes) ..	3,193	2,896,000	2,976	3,011,681
Hydraulic hoists (sold without bodies)	5,506	2,655,000	2,162	1,151,423
Tailgate loaders (all sizes and types)	209	140,000	318	249,235
Stake bodies, grain bodies and cattle bodies	3,010	1,321,000	2,228	1,137,450
Rear unit truck van bodies (steel and aluminum)	948	1,179,000	1,266	1,819,480
Delivery bodies (dairy, parcel etc., steel and aluminum) ..	1,896	2,600,000	2,260	3,272,236
Bus bodies	1,157	3,414,000	1,709	4,712,328
Tank bodies for trucks, all types	1,048	4,074,000	915	3,090,926
Utility and service bodies (including tire and tow truck) ..	738	1,285,000	1,700	2,045,002
All other bodies .....	..	1,816,000	..	1,222,076
Brakes and parts .....	..	5,961,000	..	5,507,787
Brake linings, asbestos .....	..	4,401,000	..	4,343,401
Bumpers and bumperettes .....	..	11,462,000	..	11,546,513
Cable and wire assemblies .....	..	2,900,000	..	3,281,406
Chains, tire .....	..	2,164,000	..	1,707,837
Clutches .....	..	1	..	1
Clutch facings, asbestos .....	..	1,037,000	..	1
Coils, ignition .....	..	1	..	1
Differentials .....	..	1	..	1
Distributors .....	..	1	..	1
Engines .....	..	1	..	1
Engine valves .....	..	1	..	1
Fan belts, rubber	2,512,363	1,954,000	2,339,421	1,659,179
Generators .....	..	1	..	1
Glass, laminated, etc. ....	..	1	..	1
Hardware, auto .....	..	6,117,000	..	5,999,590
Heaters, auto and engine, and defrosters .....	..	3,771,000	..	3,478,688
Headlights and parts .....	..	3,016,000	..	2,515,445
Hub and drum assemblies .....	..	1	..	1
Lubricating systems .....	..	1	..	1
Mufflers .....	..	1	..	1
Oil filters and elements .....	..	7,259,000	..	7,400,183
Pistons .....	..	1,460,000	..	1,275,789
Piston rings, expanders, etc. ....	..	3,388,000	..	3,250,508
Propeller drive shafts and universal shafts .....	..	1	..	1
Radiators, complete	277,761	4,446,000	..	3,835,730
Radiator cores .....	..	2,028,000	..	2,105,051
Radios for automobiles	234,708	7,263,000	246,329	7,227,438
Shock absorbers .....	..	1	..	1
Spark plugs	34,110,290	10,229,000	33,841,241	10,343,453
Springs, chassis .....	..	10,000,000	..	10,940,163
Starters .....	..	1	..	1
Steering gear assemblies .....	..	1	..	1
Tie rods .....	..	1	..	1
Tires (casings and tubes) .....	..	169,757,000	..	157,004,054
Tire flaps and tire flap material .....	..	129,000	..	434,212
Tire valves and parts .....	..	1	..	1
Transmissions .....	..	1	..	1
Wheels .....	..	1	..	1
Windshields .....	..	1	..	1
Windshield wipers .....	..	1	..	1
Parts (service) made in automobile factories .....	..	29,990,000	..	35,313,406
Other auto parts and supplies, not specified as to kind ....	..	55,660,000	..	50,030,727
Value of products reported by only 1 or 2 firms as indicated above .....	..	135,134,000	..	120,474,795
Totals .....	...	529,823,000	...	497,662,098

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

**TABLE 6. Principal Statistics classified according to Type of Ownership:
Motor Vehicle Parts and Accessories Manufacturers, 1957 and 1960.**

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Value of factory shipments
	number		dollars			
1957						
Individual ownership	10	32	108,274	5,712	175,980	448,315
Partnerships	2					
Incorporated companies	106	17,468	71,863,620	4,313,188	144,363,807	271,196,893
Totals	118	17,500	71,971,894	4,318,900	144,539,787	271,645,208
1960						
Individual ownership	4	45	169,914	6,431	191,953	487,521
Partnerships	1					
Incorporated companies	114	15,357	73,476,114	4,276,618	150,901,127	286,384,022
Totals	119	15,402	73,646,028	4,283,049	151,093,080	286,871,543

**TABLE 7. Principal Statistics grouped according to Selling Value of Factory Shipments:
Motor Vehicle Parts and Accessories Manufacturers, 1957 and 1960**

Establishments reporting a value of factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Value of factory shipments
	number		dollars			
1957						
Under \$10,000	9	14	33,060	2,018	12,422	50,679
\$ 10,000 to \$ 24,999	8	23	68,400	3,118	55,932	145,380
25,000 " 49,999	7	38	115,130	6,569	127,414	270,153
50,000 " 99,999	6	45	141,835	11,024	185,099	481,558
100,000 " 199,999	11	189	643,295	36,340	725,934	1,644,302
200,000 " 499,999	19	510	1,666,829	103,016	3,186,283	6,383,662
500,000 " 999,999	17	875	3,344,910	152,533	7,658,246	13,402,619
1,000,000 " 4,999,999	30	5,012	18,675,934	928,746	37,418,480	72,359,308
5,000,000 and over	11	10,794	47,282,501	3,075,536	95,169,977	176,907,547
Totals	118	17,500	71,971,894	4,318,900	144,539,787	271,645,208
1960						
Under \$10,000	3	3	8,680	203	13,977	23,751
\$ 10,000 to \$ 24,999	6	19	50,572	2,477	41,527	104,224
25,000 " 49,999	6	24	75,921	5,645	67,084	196,167
50,000 " 99,999	9	58	232,708	12,660	260,124	668,909
100,000 " 199,999	9	162	556,663	29,962	624,249	1,525,250
200,000 " 499,999	21	546	2,028,781	99,184	2,839,195	6,397,108
500,000 " 999,999	20	939	3,840,507	169,791	6,704,616	13,872,132
1,000,000 " 4,999,999	34	4,675	19,665,007	886,226	38,944,422	77,822,428
5,000,000 and over	11	8,976	47,187,189	3,076,901	101,597,886	186,261,574
Totals	119	15,402	73,646,028	4,283,049	151,093,080	286,871,543

TABLE 8. Employees and their Earnings: Motor Vehicle Parts and Accessories Manufacturers, 1959 and 1960

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
1959	number					dollars		
New Brunswick and Quebec	23	8	163	23	217	166,340	605,640	771,980
Ontario	2,466	786	9,650	2,014	14,916	18,795,664	51,308,055	70,103,719
Manitoba	47	16	197	43	303	301,782	608,162	909,944
Saskatchewan								
Alberta	13	8	63	5	89	92,204	258,283	350,487
British Columbia	11	4	47	—	62	66,372	190,904	257,276
Canada	2,560	822	10,120	2,085	15,587	19,422,362	52,971,044	72,393,406
1960								
New Brunswick and Quebec	24	9	159	22	214	168,057	600,662	768,719
Ontario	2,541	858	9,464	1,867	14,730	19,955,103	51,112,449	71,067,552
Manitoba	41	16	128	43	228	319,637	561,716	881,353
Saskatchewan	8	1	59	1	69	49,598	167,205	216,803
Alberta	19	8	65	6	98	165,459	277,554	443,013
British Columbia	11	4	48	—	63	68,646	199,942	268,588
Canada	2,644	896	9,923	1,939	15,402	20,726,500	52,919,528	73,646,028

TABLE 9. Production Workers by Months: Motor Vehicle Parts and Accessories Manufacturers, 1960

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	11,373	2,342
February	11,264	2,316
March	10,774	2,130
April	10,597	2,022
May	10,591	2,030
June	9,928	1,900
July	6,796	1,266
August	7,441	1,530
September	9,418	1,898
October	9,299	1,977
November	9,321	2,058
December	9,574	2,053
Average for establishments reporting monthly detail	9,700	1,894
Average estimated for small establishments ²	223	45
Average for all establishments	9,923	1,939

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$300,000 and over.

² For establishments generally reporting value of shipments of less than \$300,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 10. Fuel and Electricity Used: Motor Vehicle Parts and Accessories Manufacturers, 1960

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal:		
(a) From Canadian mines	ton 8,538	90,503
(b) Imported	" 64,892	518,354
Anthracite coal	" 130	655
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 790,346	336,124
Fuel oil including kerosene or coal oil	" 5,454,788	617,568
Gas:		
(a) Liquefied petroleum gases	" 122,497	19,809
(b) Other manufactured gas	Mcf. 14,243	7,811
(c) Natural gas	" 556,514	451,722
Other fuel .....	..	7,803
Electricity purchased	kwh. 223,927,632	2,127,392
Steam purchased .....	..	35,557
2. Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity .....	...	69,751
3. All establishments:		
Total cost of fuel and electricity .....	...	4,283,049

¹ Establishments generally reporting value of shipments of \$300,000 and over.² Establishments generally reporting value of shipments of less than \$300,000.

TABLE 11. Imports and Exports of Specified Motor Vehicle Parts, 1959 and 1960

	1959	1960
	dollars	
Imports		
Ball and roller bearings for automobiles	4,101,691	2,366,115
Axles, brakes and clutches for trucks	29,445,031	28,150,876
Automatic transmissions and parts .....	...	27,665,608
Automobile parts, n.o.p.	252,222,457	232,211,715
Automobile engines and parts	11,691,112	14,246,387
Engines, motor, truck and parts	14,099,296	11,753,730
Engines, motor vehicle, diesel	2,082,563	2,203,906
Spark plugs and magnetos ignition	1,721,252	1,512,942
Vehicle brake linings, asbestos	611,631	630,451
Vehicle clutch facings, asbestos	364,443	282,776
Brake linings and facings, n.o.p.	248,413	408,935
Exports		
Asbestos brake linings and facings	386,830	378,982
Spark plugs	1,952,112	2,651,477
Automobile parts, n.o.p.	16,655,473	23,817,959

Note: These data are published monthly in "Trade of Canada-Imports" (Cat. no. 65-007), and "Trade of Canada-Exports" (Cat. no. 65-004), which also shows the details of shipments by countries.

Directory of Firms: Motor Vehicle Parts and Accessories Manufacturers, 1960

Name	Address
New Brunswick:	
Saint John Spring Works	81-83 Thorne Ave., St. John
Quebec:	
Auto Radiator Mfg. Limited	960 Plessis St. Montreal
Automotive Spring Mfg. Co. Ltd.	1409 William St. Montreal
Eastern Spring Service	9359 Notre Dame E., Montreal
Economy Carburetor Co. Ltd.	4232 A Hogan St., Montreal
Everite Automotive Radiators, Ltd.	995 St. Dominique St., Montreal
Farrell Mfg. Co.	1843 St. Antoine, Montreal
Heatex Limited	740 St. Maurice St., Montreal
Specialloid (Canada) Ltd.	29 Oka Rd., St. Eustache
Truck Tank Service Co.	4255 Paul Pau, Montreal
Western Filters Ltd.	372 Blvd. Ste. Croix, St. Laurent
Ontario:	
Advanced Car Specialties Ltd.	670 Bayview Ave. Toronto
Aimco Auto Parts Co.	319 Dufferin St., Toronto
Algoma Mfg. Tool & Die Ltd.	177 King St. W. Oshawa
American Coleman of Canada Ltd.	955 Weston Rd. Toronto
Appleby, D. & Company	18 Ingram Dr. Toronto
Banner Metal Products Ltd.	1696 Kildare Rd. Windsor
Bendix-Eclipse of Canada Ltd.	1473 Argyle Rd. Windsor
Blackstone Industries Products Ltd.	533 Romeo St. Stratford
Burmac Mfg. Ltd.	1327 McDougall St. Windsor
Canadian Acme Screw & Gear Ltd.	207 Weston Rd. Toronto
Canadian Motor Lamp Co. Ltd.	2429 Seminole St. Windsor
Canadian Radiator Mfg. Co. Ltd.	267 Niagara St. Toronto
Carrick's Auto Spring Repairs	2002 Dundas St. W. Toronto
Champion Spark Plug Co. of Canada Ltd.	1624 Howard Ave. Windsor
Clevite Limited, The	1177 Talbot St. St. Thomas
Comco Stampings Ltd.	Uxbridge
Conroy Mfg. Co. Ltd.	55 Catherine St. St. Catharines
Coulter Mfg. Ltd.	30 Richmond St. W. Oshawa
Cozens Spring Service & Mfg. Co. Ltd.	157 Queen St. E., Toronto
Dayton Steel Foundry of Canada, Ltd.	Orillia
Dearborn Steel Tubing Co. (Canada) Ltd.	85 Newgate St. Goderich
Dill Mfg. Co. of Canada Ltd., The	103 Bathurst St. Toronto
Dominion Auto Accessories Ltd.	420 Keele St. Toronto
Dominion Cable & Automotive Products	217-225 Richmond St. W. Toronto
Donaldson Co. (Canada) Ltd.	277 William St. S. Chatham
Eaton Automotive Canada Ltd.	450 Highbury Ave. London
Electric Auto-Lite Ltd.	Sarnia
Electroline Mfg. Co. Ltd.	1305 Windsor Ave. Windsor
Electronic Components Ltd.	14 Plastics Ave. Toronto
Essex Stamping Products Ltd.	444 Hanna St. E. Windsor
Essex Wire Corp. Limited	1664 Windsor Ave. Windsor
Fabricated Metals & Stampings Ltd.	249 Toronto Ave. Oshawa
Fleetwood Metal Industries	1801 Walker Rd. Windsor
Fram Canada Ltd.	Romeo St. S. Stratford
Galt Metal Industries Ltd.	385 Dundas St. Galt
General Motors of Canada Ltd.	William St. E., Oshawa
Glasslynner Mufflers Ltd.	Elmira
Goodwin Glass Industries Ltd.	1052 Wyandotte St. W. Windsor
Hastings Ltd.	390 Birchmount Rd. Toronto
Hayes Steel Products Ltd.	Merritt St. Merriton
Hiller Mfg. Co. Ltd.	2375 Edna St. Windsor
Houdaille Industries Ltd.	Wolfe & Simcoe Sts. Oshawa
Hull Thompson Ltd.	2315 McDougall St. Windsor
Huron Steel Products Co. Ltd.	3710 Peter St. Windsor
Ingersoll Machine & Tool Co. Ltd.	King St. W. Ingersoll
International Formed Tubes Ltd.	111 Manville Rd. Scarborough
Karco Co. Ltd., The	938 Walker Rd. Windsor
Kelsey Wheel Co. Ltd., The	309 Ellis St. E. Windsor
Korne, M.A., Co. Ltd.	74 Colville Rd. Toronto
Kralinator Limited	Montrone St. Preston
Lake Simcoe Industries Ltd.	Box 100, Beaverton
Long Mfg. Co. Ltd.	362 Kerr St. N. Oakville
McCord Corporation	890 Walker Rd. Windsor
McKinnon Industries Ltd., The	Ontario St. St. Catharines
McQuay-Norris Mfg. Co. of Canada, Ltd.	Ray & Goddard Aves. Toronto
Monahan Supply Corp. Ltd.	191 Queen St. E. Toronto

Directory of Firms: Motor Vehicle Parts and Accessories Manufacturers, 1960 Concluded

Name	Address
Ontario — Concluded:	
Monroe-Acme Ltd.	207 Weston Rd. Toronto
Morco Products Ltd.	2 Joseph St. Kingston
Muffler Corp. of Canada Ltd.	406 Comstock Rd. Scarborough
National Auto Radiator Mfg. Co. Ltd.	2575 Airport Rd. Windsor
National Tabular Products Ltd.	Glencoe
Nelmor Corp. (Canada) Ltd.	1480 Lakeshore Rd. Toronto
Ontario Steel Products Co. Ltd. Div. "C"	105 St. George St. Chatham
Ontario Steel Products Co. Ltd.	Gananoque
Ontario Steel Products Co. Ltd.	Ritson Rd. Oshawa
Ontario Steel Products Co. Ltd.	Milton
Oshawa Engineering & Welding Co. Ltd.	25 Albert St. Oshawa
Perfect Circle Co. Ltd., The	888 Don Mills Rd. Don Mills
Perfection Automotive Products (Windsor) Ltd.	3766 Peter St. Windsor
Purolator Products (Canada) Ltd.	320 Kipling Ave. S. Toronto
S.K.D. Manufacturing Ltd.	Amherstburg
Sales, A. J. Co. Ltd.	Box 430, Ridgetown
Schrader's, A., Son	334 King St. E. Toronto
Sealed Power Corp. of Canada, Ltd.	182 King St. Stratford
Sehl Engineering Co.	136 Ottawa St. S., Kitchener
Standard Products (Georgetown) Ltd.	Hwy. No. 7 Georgetown
Stewart-Warner Alemite Corp. of Canada Ltd.	MacDonald Ave. Belleville
Tecumseh Metalcraft Ltd.	6500 Tecumseh E., Windsor
Thompson Products Ltd.	37 South St. St. Catharines
Trico Products Corporation	Dominion Rd. Fort Erie
Trim Trends Canada Ltd.	Fairall St. Ajax
Venco Metals Ltd.	347 Church St. Toronto
Wagner Brake Co. Ltd.	100 Clayson Rd. Weston
Warner Gear Co. Ltd.	325 Devonshire Rd. Windsor
Watson Spring Co. Ltd.	370 King St. E. Toronto
Weatherhead Co. of Canada Ltd., The	121 Inkerman St. St. Thomas
Wix Corporation Ltd.	25 Curity Ave. Toronto
Wrigley Steel Co. of Canada Ltd.	1573 McDougal St. Windsor
Zenith Welding Ltd.	965 Walker Rd. Windsor
Manitoba:	
Automotive Accessory Co. Ltd.	1551 Erin St. Winnipeg
Carter, James B. Ltd.	421 Mulvey Ave. Winnipeg
Manitoba Auto Spring Works	175 Fort St. Winnipeg
Richardson Mfg. Co. Ltd.	666 Arlington St. Winnipeg
Saskatchewan:	
Elmco Manufacturing	2917-5th Ave. Regina
Estevan Industries Ltd.	Box 338 Estevan
Modern Spring Works Ltd.	331 Ave. "A" South, Saskatoon
Spring Service Ltd.	2055 Broad St. Regina
Alberta:	
Economy Filter Works	1219-9th Ave. E. Calgary
Edmonton Auto Spring Works Ltd.	Jasper Ave. 95th St. Edmonton
Nordheimer Spring Service Co. Ltd.	10960-101 St. Edmonton
Peerless Motor Products Ltd.	6110-1 A St. W. Calgary
Standen's Limited	24th Ave & 2nd St. E. Calgary
British Columbia:	
A.C. Radiator Distributors Ltd.	1225 E. Pender, Vancouver
Centre Mfg. Co.	401 E. Georgia, Vancouver
Cords Piston Ring Co. of Canada, Ltd.	834 Johnson St. Victoria
Dendoff Springs Ltd.	232 W. 2nd Ave. Vancouver
Dendoff Springs (Nanaimo) Ltd.	232 Fry St. Nanaimo
McAllister Spring Co. Ltd.	425 W. 6th Ave. Vancouver

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