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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA

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ANNUAL INDUSTRY REPORT - IRON AND STEEL AND THEIR PRODUCTS GROUP

THE AUTOMOBILE PARTS INDUSTRY, 1938.

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 13). Other automobile materials, such as lacquers, upholstering, lumber, 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 12, therefore, refer only to the manufacture of auto parts of iron and steel, while Table 13 summarizes the total production of parts of all kinds as specified separately on the Census of Industry reports.

Ninety-seven establishments were included in the Automobile Parts Industry in 1938, distributed by provinces as follows: Ontario,64; Quebec, 11; British Columbia, 8; Alberta, 7; Manitoba, 5; Saskatchewan, 1; and New Brunswick, 1. Production from these plants was valued at $36,980,424, a decline of 21 per cent from the total of $46,631,643 in 1937.

In 1938 this industry afforded employment to a monthly average of 7,900 people who were paid $9,349,996 in salaries and wages, while in the previous year there were 8,416 workers with earnings of $10,358,098.

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, rims, hubs, lubricating systems, 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 12 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 $80,569,346 in 1938 compared with $96,179,100 in 1937. Details are listed in Table 13.

Imports of automobile engines numbered 13,196 units appraised at $2,513,947 in 1938, and other auto parts imported were worth $24,694,191. Exports of parts in the same year amounted in value to $2,679,265 and re-exports of imported parts to $327,726.

Table 1 - PRINCIPAL STATISTICS, 1929 - 1938.

Year	No. of plants	Capital employed	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
		$		$	$	$	$
1929	65	19,401,890	4,708	6,711,434	337,564	19,045,836	31,965,078
1930	57	16,654,683	3,580	4,527,179	305,965	10,682,111	18,401,587
1931	73	15,617,986	2,899	3,429,541	262,495	6,724,841	12,600,258
1932	76	17,332,257	3,832	3,874,618	343,810	5,970,954	12,161,456
1933	83	16,975,182	3,776	3,569,483	396,439	6,034,155	13,001,185
1934	80	19,393,687	5,172	5,498,360	550,390	12,736,731	24,378,762
1935	82	23,260,333	6,614	7,411,434	688,030	18,528,296	32,684,252
1936	85	24,730,610	6,842	7,776,726	721,582	18,453,840	33,378,508
1937	88	28,440,176	8,416	10,358,098	849,963	26,631,014	46,631,643
1938	97	27,480,773	7,900	9,349,996	772,420	19,168,459	36,980,424
% change 1938 from 1937 --		- 3.4	- 6.1	- 9.7	- 9.1	- 28.0	- 20.7

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.

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1937 and 1938.

Province	No. of plants	Capital employed	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
		$		$	$	$	$
1937							
Quebec	10	141,972	78	85,335	4,394	66,800	184,647
Ontario.....	61	27,916,992	8,183	10,081,051	836,746	26,378,429	45,987,041
Manitoba.....	4	79,133	49	39,746	2,336	47,138	93,182
Alberta.....	6	119,719	56	71,027	2,688	81,582	166,829
British Columbia.	5	165,823	42	71,210	2,474	49,325	179,104
Saskatchewan.....	1)	16,537	8	9,729	1,325	7,740	20,840
New Brunswick....	1)						
CANADA.....	88	28,440,176	8,416	10,358,098	849,963	26,631,014	46,631,643
1938							
Quebec.....	11	170,443	86	87,813	5,026	58,305	189,474
Ontario.....	64	26,775,145	7,602	9,009,152	756,002	18,898,660	36,180,099
Manitoba.....	5	144,812	65	60,981	3,597	69,466	151,987
Alberta.....	7	143,145	65	78,880	2,236	71,330	176,984
British Columbia.	8	228,143	74	103,257	3,944	65,183	254,924
Saskatchewan.....	1)	19,085	8	9,913	1,395	7,515	26,956
New Brunswick....	1)						
CANADA.....	97	27,480,773	7,900	9,349,996	772,420	19,168,459	36,980,424

(18 Apr. '40)

Table 3 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES and CAPITAL EMPLOYED, 1938.

	Number of plants	Capital employed	Average number of employees	Gross selling value of products at works
		$		$
(a) PRODUCTION				
Under $5,000.....	7	46,130	14	17,498
$5,000 to $10,000.....	13	140,928	52	108,038
$10,001 to $25,000.....	16	461,962	140	276,449
$25,001 to $50,000.....	14	439,946	186	497,192
$50,001 to $100,000....	9	548,824	191	651,355
$100,001 to $250,000...	11	1,902,869	461	1,741,756
$250,001 to $500,000...	8	3,046,855	672	2,832,430
$500,001 to $1,000,000.	10	5,941,382	1,424	6,802,105
Over $1,000,000.....	9	14,951,877	4,760	24,053,601
TOTAL.....	97	27,460,773	7,900	36,980,424
(b) EMPLOYEES				
1 or 2.....	8	44,017	14	28,279
3 to 10.....	28	477,393	162	479,123
11 to 20.....	21	825,699	315	987,444
21 to 50.....	9	1,259,892	282	1,229,613
51 to 100.....	13	3,927,134	912	4,563,056
101 to 200.....	9	5,739,050	1,292	7,170,813
Over 200.....	9	15,187,588	4,923	22,521,096
TOTAL.....	97	27,460,773	7,900	36,980,424
(c) CAPITAL				
Under $25,000.....	35	426,300	217	542,263
$25,000 to $100,000....	27	1,224,816	450	1,514,036
$100,001 to $500,000...	17	4,404,794	1,148	5,147,463
$500,001 to $1,000,000.	11	7,502,904	1,571	8,515,362
Over $1,000,000.....	7	13,901,959	4,514	21,261,300
TOTAL.....	97	27,460,773	7,900	36,980,424

Table 4 - CAPITAL EMPLOYED, BY PROVINCES, 1937 and 1938.

Province	Present value of lands, buildings, fixtures, machinery and tools	Inventory value of materials and finished products on hand and stocks in process	Operating capital (cash, trading and operating accounts, bills receivable, etc.)	TOTAL CAPITAL EMPLOYED
	$	$	$	$
1937				
Quebec.....	92,865	27,700	21,407	141,972
Ontario.....	14,345,798	7,980,149	5,591,045	27,916,992
Manitoba.....	58,964	15,463	4,706	79,133
Alberta.....	65,559	24,525	29,635	119,719
British Columbia	99,218	27,060	39,545	165,823
Other provinces.	7,159	6,494	2,884	16,537
CANADA.....	14,669,563	8,081,391	5,689,222	28,440,176
1938				
Quebec.....	113,897	32,062	24,484	170,443
Ontario.....	13,683,052	6,571,616	6,520,477	26,775,145
Manitoba.....	93,709	26,192	24,911	144,812
Alberta.....	73,999	33,542	35,604	143,145
British Columbia	145,999	23,568	58,576	228,143
Other provinces.	7,944	6,494	4,647	18,985
CANADA.....	14,118,600	6,693,474	6,668,699	27,480,773

Table 5 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1937 and 1938.

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female	TOTAL			
						$	$	$
1937								
Quebec.....	14	1	62	1	78	21,689	63,646	85,335
Ontario.....	716	254	6,448	765	8,183	1,824,406	8,256,645	10,081,051
Manitoba.....	10	3	36	...	49	13,435	26,311	39,746
Alberta.....	8	3	43	2	56	15,371	55,656	71,027
British Columbia.	12	2	28	...	42	34,786	36,424	71,210
Other provinces..	3	...	5	...	8	3,870	5,859	9,729
CANADA.....	763	263	6,622	768	8,416	1,913,557	8,444,541	10,358,098
1938								
Quebec.....	14	1	71	...	86	26,305	61,508	87,813
Ontario.....	735	260	5,921	686	7,602	1,959,846	7,049,306	9,009,152
Manitoba.....	11	4	50	...	65	17,364	43,617	60,981
Alberta.....	11	4	50	...	65	28,005	50,875	78,880
British Columbia.	19	4	50	1	74	49,030	54,227	103,257
Other provinces..	3	...	5	...	8	3,870	6,043	9,913
CANADA.....	793	273	6,147	687	7,900	2,084,420	7,265,576	9,349,996

Table 6 - WAGE-EARNERS, BY MONTHS, 1937 and 1938. (On the last day of each month).

Month	1937			1938		
	Male	Female	TOTAL	Male	Female	TOTAL
January.....	6,507	809	7,316	6,882	786	7,668
February.....	6,694	843	7,537	6,613	761	7,374
March.....	6,773	854	7,627	6,365	733	7,098
April.....	6,622	789	7,411	6,063	717	6,780
May.....	6,709	819	7,528	6,054	665	6,719
June.....	6,744	802	7,546	5,732	602	6,334
July.....	6,459	730	7,189	5,017	554	5,571
August.....	5,946	582	6,528	5,437	583	6,020
September.....	6,386	649	7,035	5,954	592	6,546
October.....	6,663	726	7,389	6,364	662	7,026
November.....	6,939	797	7,736	6,630	778	7,408
December.....	6,937	798	7,735	6,597	791	7,388
AVERAGE.....	6,622	768	7,390	6,147	687	6,834

Table 7 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1938.(Overtime not included).

Regular hours worked per week	Per cent of wage-earners	Regular hours worked per week	Per cent of wage-earners
30 hours or less.....	2.4	51 - 54 hours.....	1.7
31 - 43 hours.....	22.4	55 hours.....	3.0
44 hours.....	17.9	56 - 64 hours.....	3.9
45 - 47 hours.....	22.6	65 hours and over...	0.3
48 hours.....	9.7		
49 - 50 hours.....	16.1		

Table 8 - FUEL AND ELECTRICITY USED, 1937 and 1938.

Kind	Unit of measure	1937 Quantity	1937 Cost at works	1938 Quantity	1938 Cost at works
			$		$
Bituminous coal - Canadian....	short ton	393	2,668	591	3,893
Imported....	short ton	36,509	209,581	24,250	138,262
Anthracite coal.....	short ton	112	1,494	1,493	9,567
Lignite coal.....	short ton	8	67	8	67
Coke.....	short ton	20	249	7	56
Gasoline.....	Imp. gal.	57,571	11,930	50,761	10,984
Kerosene or coal oil.....	Imp. gal.	367	62	560	149
Fuel oil.....	Imp. gal.	2,269,951	164,027	2,133,646	143,811
Wood.....	cord	197	1,164	228	1,381
Gas - Manufactured.....	M cu. ft.	7,777	6,763	9,955	8,801
Natural.....	M cu. ft.	110,413	61,864	123,195	66,007
Other fuel.....	$	...	4,031	...	1,550
Electricity purchased.....	K. W. H.	42,996,076	386,063	38,581,706	387,892
TOTAL.....	$	...	849,963	-	772,420

Table 9 - POWER EQUIPMENT, 1937 and 1938.

Kind	1937 Number of units	1937 Total rated horse power	1938 Number of units	1938 Total rated horse power
Steam engines and steam turbines.....	9	734	9	734
Hydraulic turbines or water wheels...	4	870	4	870
Total Primary Equipment.....	13	1,604	13	1,604
Electric motors run by purchased power.....	6,227	38,338	6,613	38,663
TOTAL.....	6,240	39,942	6,626	40,267
Stationary boilers.....	42	5,794	40	6,069

Table 10 - POWER EQUIPMENT showing - ORDINARILY IN USE - separately from - IN RESERVE OR IDLE, 1938.

Kind	Ordinarily in use: Number of units	Ordinarily in use: Total rated horse power	In reserve or idle: Number of units	In reserve or idle: Total rated horse power
Steam engines and steam turbines.....	9	734	-	-
Hydraulic turbines or water wheels....	4	870	-	-
Total Primary Equipment.....	13	1,604	-	-
Electric motors run by purchased power.....	6,347	36,700	266	1,963
TOTAL.....	6,360	38,304	266	1,963
Stationery boilers.....	33	5,056	7	1,013

Table 11 - MATERIALS USED IN MANUFACTURING, 1937 and 1938.

Materials	Unit of measure	1937 Quantity	1937 Cost at works	1938 Quantity	1938 Cost at works
			$		$
Iron and steel -					
Pig iron	long ton	5,991	149,487	4,464	122,700
Iron castings	short ton	6,545	628,586	3,395	367,809
Steel castings	short ton	3,428	444,578	2,204	305,612
Bars and rods, steel	short ton	16,935	1,172,855	18,248	1,153,171
Forgings, steel	short ton	12,221	1,071,698	5,034	599,734
Plates, steel	short ton	156	11,779	1,394	117,850
Shafting, steel	short ton	191	17,365	-	-
Sheets, steel	short ton	4,058	291,585	11,598	591,493
Strip, steel	short ton	18,109	996,883	1,894	158,993
Structural shapes	short ton	200	13,462	82	5,135
Stampings, steel	short ton	...	351,828	-	407,923
Wire	short ton	3,395	334,165	2,736	252,054
Alloy steel	$	...	1,487,673	-	1,302,762
Scrap iron and steel	short ton	1,568	31,260	5,325	77,403
Other iron and steel	$	...	415,516	-	150,588
Ferro-alloys	short ton	...	...	18	2,350
Non-ferrous metals -					
Aluminium	pound	647,228	154,053	705,161	174,836
Brass and bronze	pound	3,877,675	760,564	3,062,232	552,233
Copper	pound	2,544,776	548,472	2,253,266	483,893
Lead	pound	72,718	5,352	18,650	1,095
Nickel	pound	72,884	36,532	90,801	43,354
Tin	pound	3,735	1,956	1,491	700
Zinc	pound	520,112	73,978	206,548	22,263
Babbitt metals and solders	pound	700,567	155,041	506,558	116,698
Other non-ferrous metals	$	...	33,277	-	33,716
Other materials -					
Foundry coke for cupola use	short ton	312	4,278	3,222	41,016
Moulding sands	short ton	1,404	4,901	1,369	4,538
Core sands	short ton	2,161	7,036	3,971	12,537
Foundry facings	pound	239,500	2,394	199,500	6,592
Bolts, nuts, rivets and screws	$	...	286,316	-	235,515
Glass	$	...	635,092	-	561,504
Iron and steel pipe and fittings	$	...	92,122	-	54,474
Lumber	M ft. b.m.	4,701	234,256	3,946	188,608
Paints, lacquers, enamels, etc.	$	...	340,266	-	209,007
Upholstery cloths	$	...	53,945	-	13,317
Finished parts and accessories for assembling	$	...	8,075,535	-	5,055,529
Shipping containers	$	...	131,560	-	95,992
All other materials	$	...	7,575,368	-	5,645,465
TOTAL	$	...	26,631,014	-	19,168,459

Table 12 - PRODUCTS MADE IN THE AUTOMOBILE PARTS INDUSTRY, 1937 and 1938.

NOTE - Data given in this table are for the Automobile Parts Industry, which includes only the concerns that manufactured metal auto parts as their chief products (see Directory). 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 13.

Products	Unit of measure	1937 Quantity	1937 Selling value at works	1938 Quantity	1938 Selling value at works
			$		$
Axles and axle shafts for automobiles	No.	175,127	1,882,169	143,979	1,367,350
Bodies and cabs for automobiles	$	...	2,119,015	...	1,932,179
Brakes and parts, for automobiles	$	...	765,403	...	523,550
Bumpers and bumperettes	$	...	807,765	...	667,264
Coils, ignition	No.	252,267	322,618	200,777	290,972
Heaters, car	$	...	506,841	...	321,302
Hardware, automobile	$	...	146,071	...	278,030
Radiators, complete	$	...	1,353,538	...	1,179,323
Radiator cores	$	...	72,765	...	70,411
Rings, auto piston	No.	8,837,939	928,539	8,141,782	821,219
Springs, auto chassis	$	...	1,363,789	...	576,546
Starters (self-starters)	No.	363,365	1,106,770	290,963	864,064
Stampings (not separately specified)	$	...	279,233	...	258,150
Trailers	$	...	680,979	...	581,701
Tools, auto and garage	$	...	168,498	...	171,948
Received for custom work and repairs	$	...	408,722	...	516,125
All other products (x)	$	...	33,298,197	...	26,560,290
TOTAL	$	...	46,631,643	...	36,980,424

(x) Includes products reported by less than 3 firms such as engines, spark plugs, pistons, differentials, transmissions, wheels, windshields, steering gears, clutches, generators, distributors, shock absorbers, etc.

Table 13 - PRODUCTION OF SPECIFIED AUTO PARTS AND ACCESSORIES, FROM ALL INDUSTRIES, 1937 and 1938.

NOTE - Figures given in this table represent the total reported Canadian production of the commodities listed, regardless of the industry in which produced. Data are subject to slight revision on further examination of individual reports.

Products	Unit of measure	1937 Quantity	1937 Selling value at works	1938 Quantity	1938 Selling value at works
			$		$
Axles and axle shafts	No.	175,127	1,882,169	143,979	1,367,350
Batteries, storage (for autos)	No.	662,100	2,821,072	643,840	2,682,248
Bodies and cabs	$	...	2,533,203	...	2,111,911
Brakes and parts	$	...	765,403	...	523,550
Brake linings, asbestos	Ft.	3,713,044	580,487	3,056,830	478,834
Bumpers and bumperettes	$	...	807,765	...	667,264
Cables and wire assemblies	$	...	398,214	...	371,910
Chains and cross chains, tire	$	...	589,845	...	663,572
Clutches	No.	160,780	420,731	...	(x)
Clutch facings, asbestos	$	...	126,124	...	117,082
Coils, ignition	No.	252,267	322,618	200,777	290,972
Covers for radiators, tires, seats, etc.	$	...	191,094	...	144,547

Table 13 - PRODUCTION OF SPECIFIED AUTO PARTS AND ACCESSORIES, FROM ALL INDUSTRIES, 1937 and 1938 - (concluded)

Products	Unit of measure	1937 Quantity	1937 Selling value at works	1938 Quantity	1938 Selling value at works
			$		$
Differentials	$	...	(x)	...	(x)
Distributors	$	...	(x)	...	(x)
Drag links and tie rods	$	...	(x)	...	(x)
Engines	$	...	(x)	...	(x)
Engine parts	$	...	(x)	...	(x)
Fan belts, rubber	$	...	243,295	...	259,293
Generators	$	...	(x)	...	(x)
Glass, laminated, etc.	$	...	(x)	...	(x)
Hardware, auto	$	...	835,686	...	910,681
Heaters, auto and engine, and defrosters	$	...	519,614	...	376,835
Lamps and parts (headlights, etc.)	$	...	(x)	...	(x)
Lubricating systems	$	...	(x)	...	(x)
Motor temperature indicators	$	...	(x)	...	(x)
Pistons	$	...	(x)	...	(x)
Piston rings, expanders, etc.	No.	8,837,939	928,539	8,141,782	821,219
Radiators, complete	$	...	1,353,538	...	1,179,323
Radiator cores	$	...	72,765	...	70,411
Radios for automobiles	No.	22,991	1,275,208	21,676	1,178,452
Shock absorbers	$	...	(x)	...	(x)
Spark plugs and parts	$	...	(x)	...	(x)
Springs, chassis	$	...	1,386,779	...	581,425
Starters	No.	363,365	1,106,770	290,963	864,064
Steering wheels	$	...	(x)	...	(x)
Tires (casings and tubes)	$	...	36,166,784	...	28,402,477
Tire flaps and tire flap material	$	...	146,884	...	132,370
Tire valves	$	...	(x)	...	(x)
Tops, auto, and side curtains	$	...	21,611	...	6,200
Transmissions	$	...	(x)	...	(x)
Tubing, steel, for automobiles	$	...	(x)	...	(x)
Wheels	$	...	(x)	...	(x)
Windshields	$	...	(x)	...	(x)
Windshield wipers	$	...	(x)	...	(x)
Parts (service) made in auto factories	$	...	7,099,112	...	6,712,208
Other auto parts and supplies, not specified separately	$	...	6,163,982	...	3,433,094
Value of products reported by only 1 or 2 firms as indicated above	$	...	27,419,808	...	26,222,054
TOTAL	$	...	96,179,100	...	80,569,346

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

Table 14 - PRODUCTION OF AUTOMOBILES IN CANADA, SUBDIVIDED AS BETWEEN PASSENGER CARS AND TRUCKS, 1934 - 1938.

Year	PASSENGER CARS		TRUCKS		TOTAL	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		$		$		$
1934	92,647	57,260,156	24,205	12,770,318	116,852	70,030,474
1935	135,562	79,209,276	37,315	19,803,771	172,877	99,013,047
1936	128,369	76,814,258	33,790	19,140,946	162,159	95,955,204
1937	153,046	93,368,282	54,417	30,389,011	207,463	123,757,293
1938	123,761	81,661,687	42,325	26,497,038	166,086	108,158,725

Table 15 - IMPORTS INTO CANADA OF AUTOMOBILES AND PARTS, CALENDAR YEARS 1934 - 1938.

Calendar Year	PASSENGER CARS		TRUCKS		PARTS(c)	TOTAL
	Number	Value	Number	Value	Number	Value
		$		$	$	$
1934	1,988	1,348,789	917	648,340	19,474,767	21,471,896
1935	3,133	2,021,142	978	789,609	24,517,832	27,328,583
1936	8,053	6,114,199	1,850	1,651,116	24,044,191	31,809,506
1937	17,267	13,393,081	2,802	2,791,879	32,774,858	48,959,818
1938	13,445	10,714,345	1,709	2,005,852	24,694,191	37,414,388

(c) Does not include automobile engines.

Table 16 - EXPORTS FROM CANADA OF CANADIAN AUTOMOBILES AND PARTS, CALENDAR YEARS 1934 - 1938.

Calendar Year	PASSENGER CARS		TRUCKS		AUTOMOBILE PARTS	TOTAL VALUE
	Number	Value	Number	Value		
		$		$	$	$
1934	31,274	12,988,365	12,094	4,215,429	2,415,222	19,619,016
1935	47,592	16,885,736	16,738	6,082,846	2,925,667	25,894,249
1936	42,351	15,289,140	13,219	4,904,102	2,899,946	23,093,188
1937	43,801	15,921,282	22,066	7,941,782	2,919,981	26,783,045
1938	40,386	15,311,201	17,381	6,924,273	2,679,265	24,914,739

Table 17 - RE-EXPORTS FROM CANADA OF IMPORTED AUTOMOBILES AND PARTS, CALENDAR YEARS 1934 - 1938.

Calendar Year	PASSENGER CARS		TRUCKS		AUTOMOBILE PARTS	TOTAL VALUE
	Number	Value	Number	Value		
		$		$	$	$
1934	379	153,761	20	9,511	359,950	523,222
1935.....	281	124,439	10	3,407	348,729	476,575
1936	247	116,498	20	26,049	333,606	476,153
1937	259	163,442	17	16,565	349,669	529,676
1938	131	79,241	11	6,269	327,726	413,236

Table 18 - COMPARATIVE STATEMENT OF THE PRODUCTION AND IMPORTS OF AUTOMOBILE ENGINES and the NUMBER OF AUTOMOBILES MADE IN CANADA, 1934 - 1938.

Year	Engines imported into Canada	As reported by automobile manufacturers		
		Engines purchased	Engines made	Automobiles produced
	No.	No.	No.	No.
1934	29,760	34,652	83,036	116,852
1935	30,893	32,699	140,948	172,877
1936	43,214	40,666	121,762	162,159
1937	65,665	58,351	149,588	207,463
1938	13,196	11,587	155,318	166,086

DIRECTORY OF FIRMS IN THE AUTOMOBILE PARTS INDUSTRY, 1938.

NOTE - This is not intended to be a complete list of manufacturers of auto parts and accessories. It is simply a list of the concerns in this industry, which includes the firms that made auto parts and accessories of iron and steel as their CHIEF products.

Name of Firm	Location of Plant
NEW BRUNSWICK -	
Saint John Spring Works	81 Thorne Ave., Saint John
QUEBEC -	
Auto Radiator Mfg. Limited	960 Plessis St., Montreal
Bearings and Auto Parts, Reg'd.	667 Lagauchetière St.,W., Montreal
Canada Spring Service Co.	1239 Osborne Street, Montreal
Cartier Manufacturing Ltd.	995 St. Dominique St., Montreal
Champion Grip Chain Co. Ltd.	3035 St. Antoine St., Montreal
Conrad, William	Beloeil
Corbeil, J. H.	St. Lin
Gardner Equipment Co. Ltd.	5475 Resther St., Montreal
Jennings Auto Body Co.	1167 St. James St. W., Montreal
McRobert, C. A., and Son, Ltd.	31 St. Viateur St. E., Montreal
Racine, Alfred, Enrg.	5120 St. Dominique St., Montreal
ONTARIO -	
Adams, J. C., Co. Limited	115 George St., Toronto
Back, L. Co. Ltd.	48 Pearl Street, Toronto
Beaver Automotive Products Limited	11 Russell St. E., Smiths Falls
Bendix Eclipse of Canada, Limited	1473 Argyle Road, Windsor
Brantford Coach and Body Ltd.	Pearl Street and Mohawk St.,Brantford
Bus Universal Supply	St. Luke's Road, Walkerville
Canada Motor Products Limited	66 Wellington St. W., Toronto
Canadian Acme Screw and Gear, Limited	207 Weston Road S., Toronto
Canadian Motor Lamp Co. Ltd.	Seminole St., Windsor
Canadian Piston Ring Co. Ltd.	962 Walker Road, Walkerville
Canadian Radiator Mfg. Co.	439 Wellington St. W., Toronto
Canadian Top and Body Corp. Ltd.	Louise St., Tilbury
Champion Spark Plug Co. of Canada, Ltd.	1624 Howard Ave., Windsor
Court Radiator Plant Limited	29 Queenston St., St. Catharines
Dill Mfg. Co. of Canada, Limited	489 King St. W., Toronto
Dominion Chain Company Limited	800 Bender Ave., Niagara Falls
Dominion Truck Equipment Co. Ltd.	60 South St., Kitchener
Eaton-Wilcox-Rich, Ltd.	379 Pitt St. W., Windsor
Elder, Robt., Carriage Works Limited	26 Sotto Street, Toronto
Electric Auto-Lite Limited	Christina St., N. Sarnia
Essex Wire Corporation Limited	1635 McDougall Ave., Windsor
Faith Products Co.	690 King St. W., Toronto
Flaherty Manufacturing Co.	76 Wellington St., Hamilton
Flexo Mfg. Co. Limited	68 Lombard St., Toronto
Fruehauf Trailer Co. of Canada, Ltd.	233 Sterling Rd., Toronto
General Motors of Canada Limited	Walkerville
Gotfredson Trucks Ltd.	924 Walker Road, Windsor
Gray Forgings & Stampings Limited	St.Clarens & Royce Avenues, Toronto
Guelph Spring and Axle Co. Ltd.	24 Wellington St., Guelph
Hamilton Spring and Bumper	250 King William St., Hamilton

DIRECTORY OF FIRMS IN THE AUTOMOBILE PARTS INDUSTRY, 1938

Name of Firm	Location of Plant
ONTARIO - Concluded	
Hampsons' Products	1392 Dufferin Street, Toronto
Hayes Steel Products Ltd.	Merritton
Ingersoll Machine and Tool Co. Ltd.	King St. W., Ingersoll
Kelsey Wheel Company Limited	309 Ellis Ave., Windsor
Knight Rebound Controllers Limited	16 Sanford Ave. S., Hamilton
Leyland Auto and Truck Parts	540 Queen Street, E., Toronto
Long Manufacturing Co. Limited	2744 Edna Street, Windsor
McCord Radiator and Mfg. Co.	168 Walker Road, Walkerville
McKinnon Industries Limited	Ontario St., St. Catharines
McQuay-Norris Mfg. Co. of Canada, Ltd.	Ray and Goddard Avenues, Mount Dennis
Mitchell Hearse Company Limited	Oxford St., Ingersoll
Motor Products Corporation	Walker Road, Walkerville
Ontario Steel Products Company Limited	81 St. George St., Chatham
Ontario Steel Products Company Limited	King St., Gananoque
Ontario Steel Products Company Limited	Ritson Road, Oshawa
Perfect Circle Company Ltd.	205 Richmond St. W., Toronto
Reliable Radiator Co.	124 Kent St., Ottawa
St.Catharines Auto Bodies, Ltd.	207 St. Paul St. W., St. Catharines
Schraders, A., Son, Inc.	334 King St. E., Toronto
Sealed Power Corp. of Canada Ltd.	Walker Power Building, Walkerville
Simplex Products Corp.	445 King St. W., Toronto
Stewart Warner Alemite Corp.of Can.,Ltd.	McDonald Ave., Belleville
Skinner Company Limited	Wolfe and Simcoe Sts., Oshawa
Stehr Piston Ring Company	90 London St. E., Windsor
Superior Picton Ring Co. of Canada,Ltd.	553 Lincoln Road, Walkerville
Thompson Products Limited	37 Louth St., St. Catharines
Trico Products Corp.	40 Courtwright St., Fort Erie North
Truck Engineering Ltd.	667 Dundas St., Woodstock
Watson Spring Co. Ltd.	191 Parliament St., Toronto
Weatherhead Company of Canada, Ltd.	189 Talbot St., St. Thomas
Wel-Ever Piston Ring Co. of Canada,Ltd.	279 Sandwich St. W., Windsor
Wilkening Manufacturing Co.(Canada)Ltd.	43 Britain St., Toronto
Wilson Motor Bodies Limited	48 Abell St., Toronto 3
MANITOBA -	
Chalmers Auto Truck & Body Works	342 Nairn Ave., Winnipeg
Manitoba Auto Spring Works	219 Fort St., Winnipeg
Maybilt Radiators Ltd.	310 Burnell St., Winnipeg
Neuls, Fred, Spring Service Station	122 Charlotte St., Winnipeg
Western Auto and Truck Body Works	702 Broadway Ave., Winnipeg
SASKATCHEWAN -	
Western Spring Mfrs. Ltd.	2049 Broad St., Regina
ALBERTA -	
Alberta's Auto Top & Body Company	9906 - 107th Avenue, Edmonton
Edmonton Auto Spring Works	95th St. & Jasper Ave., Edmonton
Hay & Harding Ltd.	1439 - 10th Ave. E.,Calgary
McArthur Auto Spring Works	330 - 6th Ave. E., Calgary
Standen, Wm.	2401 - 2nd A St. S.E.,Calgary
Sunnyside Auto Body Works	1014 - 4th Ave. N.W., Calgary
Peerless Motor Products	216 - 12th Avenue, W., Calgary.

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DIRECTORY OF FIRMS IN THE AUTOMOBILE PARTS INDUSTRY, 1938 - (concluded)

Name of Firm	Location of Plant
BRITISH COLUMBIA -	
Auto House Ltd.	1040 Hornby Street, Vancouver
Cords Piston Ring Co. of Canada Ltd.	963 Yates Street, Victoria
McAllister Spring Co. Ltd.	1162 Seymour St., Vancouver
Nicol's, Dave, Auto Works	719 Fisgard St., Victoria
Pioneer Equipment Ltd.	966 Richards St., Vancouver
Ribchester, G. W. & Co. Ltd.	1253 Howe St., Vancouver
Vancouver Spring Co.	1134 Richards St., Vancouver
Willock Truck Equipment Co.	1378 W. Broadway, Vancouver