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## STATISTICAL REVIEW OF THE

CANADIAN AUTOMOTIVE INDUSTRY: 1988


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## Canadian Automotive Developments in 1988

The Canadian automotive industry continued to exhibit strong performance in 1988, with record vehicle production and sales close to the peak levels achieved over the previous three years. Vehicle production was up 22 percent from 1987, setting a new record of 1977000 units. This increase is largely attributable to the return to full production at General Motors' Sainte-Thérèse car plant and its Oshawa truck plant. Ford also increased production at its Oakville car plant, as did Chrysler in the new Bramalea plant.

In 1988, General Motors completed a major conversion of the Autoplex in Oshawa, making it the largest, most modern vehicle assembly complex in North America. Autoplex includes a truck plant, two car plants and a contiguous stamping plant. The stampings, which utilize Canadian steel, are delivered on a "just-in-time" basis to the Autoplex assembly plants. In Quebec, the Sainte-Therèse car assembly plant operated at full capacity following conversion from rear-wheel drive to front-wheel drive models.

During 1988, Chrysler completed the integration of the former American Motors (Canada) Inc. operations into those of Chrysler Canada. The former American Motors' sales and marketing organization was reorganized into a new division called the Jeep/Eagle Division. Significantly, Chrysler's four Canadian assembly plants ranked among the top five in the Corporate Quality Audit of all Chrysler North American plants for the 1988 model year.

Ford's accomplishments included general plant upgrades and installation of a two-component clear coat paint facility at the St. Thomas assembly plant during 1988. The Niagara Glass plant also became the fourth plant in Canada to earn Ford's Q1 Quality Award.

Honda rationalized production on a North American basis and converted the Alliston assembly plant to the production of the Civic three-door hatchback model. This plant produces vehicles for the entire North American market, including Hawaii. Honda also began construction of an in-house stamping facility for major body parts.

Two new assembly plants came on-stream in 1988: Toyota in Cambridge, Ontario; and Hyundai in Bromont. Quebec. The Toyota plant, with an annual capacity of 50000 units, is expected to produce about 15000 units in 1989, with a second shift to be added later in the year. The Hyundai plant, where assembly of Sonatas began in December 1988, is expected to produce about 25000 units in 1989, with a total capacity of 100000 units per year.

Car sales, while down slightly from 1987, remained high by historical standards with over one million units sold in 1988. Sales of commercial vehicles were up 8.7 percent compared to 1987, and set a new sales record. North American manufacturers increased passenger car market share to 68.6 percent, up from 65.8 percent in 1987 and continued their dominance of the growing light truck market.

The automotive industry continues to invest in plant and equipment and to introduce new production processes. Between 1978 and 1988, Canadian vehicle and parts manufacturers invested more than $\$ 12$ billion, of which approximately $\$ 2.5$ billion was invested in 1988 . Total capital spending by Canadian automotive parts producers during this period was more than $\$ 4.5$ billion. Investment in the auto parts sector is expected to accelerate during the next few years as parts producers respond to changing market demands. For example, tire companies are planning to invest
approximately $\$ 1$ billion to modernize facilities and European and Japanese parts producers have committed to invest approximately $\$ 2$ billion over the next few years.

In 1988, Industry, Science and Technology Canada launched the Automotive Component Initiative (ACI), a sector campaign designed to support the Canadian automotive components manufacturing sector as it improves competitiveness and responds to new market requirements.

On January 2, 1988, the Canada-U.S. free trade negotiations culminated in the signing of the FTA. Both countries subsequently passed the required legislation. In the automotive sector, the FTA governs trade in motor vehicles, original equipment parts, aftermarket (replacement) parts and tires. Tariffs on vehicles, original equipment parts and tires will be phased out in 10 years provided products meet the new automotive rules of origin. The tariffs on aftermarket parts will be eliminated by 1993.

The Auto Pact remains in effect for existing Canadian participants as listed in the Agreement. The Agreement limits the benefits of duty-free entry from third countries to companies which currently qualify or will qualify for Auto Pact status during the 1989 model year.

Stricter new rules of origin for duty-free trade in vehicles under the Agreement ( 50 percent Canadian or U.S. content in terms of direct production costs) create a significant incentive for increased sourcing of North American parts.

Canadian safeguards have been maintained under the Agreement. Canadian Auto Pact companies may continue to import duty-free in return for meeting Auto Pact production safeguards. Canadian parts producers will enjoy duty-free access to the U.S. market. As recognized in the Agreement, until 1996, Canada will continue those duty remission arrangements negotiated with certain manufacturers related to production value-added commitments. Exports to the U.S. are no longer eligible under the export based duty remission programs as of January 1, 1989, and to third countries as of January 1, 1998. Under the Agreement, Canada has agreed to terminate the prohibition on the entry of used and second-hand vehicles within five years.

A select panel of informed persons from both countries has been established to assess the state of the North American industry and to propose public policy measures and private initiatives to improve its competitiveness in domestic and foreign markets.

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NOTE: Because of the variety of sources from which these statistical tables have been derived or taken, totals will not always agree.


Sales

Retail Sales of Motor Vehicles in Canada, 1965-1988 (000 units)

| Year | Automobiles |  | Total | Trucks |  | Total | Total Vehicles |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Domestic* | Overseas** Import |  | Domestic* | Overseas** Import |  |  |
| 1965 | 634 | 75 | 709 | 120 | 2 | 122 | 831 |
| 1970 | 497 | 143 | 640 | 125 | 9 | 134 | 774 |
| 1975 | 836 | 154 | 990 | 310 | 17 | 327 | 1317 |
| 1979 | 863 | 140 | 1003 | 381 | 12 | 393 | 1396 |
| 1980 | 741 | 191 | 932 | 312 | 22 | 334 | 1266 |
| 1981 | 647 | 257 | 904 | 251 | 36 | 287 | 1191 |
| 1982 | 489 | 224 | 713 | 167 | 40 | 207 | 920 |
| 1983 | 625 | 218 | 843 | 193 | 45 | 238 | 1081 |
| 1984 | 725 | 246 | 971 | 274 | 39 | 313 | 1284 |
| 1985 | 795 | 342 | 1137 | 345 | 48 | 393 | 1530 |
| 1986 | 762 | 329 | 1091 | 368 | 51 | 419 | 1510 |
| 1987 | 701 | 364 | 1065 | 412 | 51 | 463 | 1528 |
| 1988 | 725 | 332 | 1057 | 460 | 49 | 509 | 1566 |

* North American-Built (includes Mexico)
** Includes captives

Source: Statistics Canada

Retail Sales of Motor Vehicles in the United States, 1965-1988
(000 Units)

| Year | Automoblles |  | Trucks Overseas*******) |  |  |  | Total Vehicles |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Domestic* | Overseas** Import | Total | Domestic* | Overseas** Import | Total |  |
| 1965 | 8763 | 569 | 9332 | 1539 | 44 | 1583 | 10915 |
| 1970 | 7120 | 1285 | 8405 | 1746 | 65 | 1811 | 10216 |
| 1975 | 7053 | 1587 | 8640 | 2249 | 231 | 2480 | 11120 |
| 1979 | 8328 | 2300 | 10628 | 3000 | 500 | 3500 | 14128 |
| 1980 | 6578 | 2398 | 8976 | 2002 | 484 | 2486 | 11462 |
| 1981 | 6206 | 2324 | 8530 | 1852 | 448 | 2300 | 10830 |
| 1982 | 5757 | 2222 | 7979 | 2151 | 410 | 2561 | 10540 |
| 1983 | 6795 | 2386 | 9181 | 2588 | 464 | 3052 | 12233 |
| 1984 | 7951 | 2439 | 10390 | 3484 | 607 | 4091 | 14481 |
| 1985 | 8205 | 2834 | 11039 | 3912 | 766 | 4678 | 15717 |
| 1986 | 8216 | 3235 | 11451 | 3944 | 923 | 4867 | 16318 |
| 1987 | 6871 | 3197 | 10068 | 3915 | 824 | 4739 | 14807 |
| 1988 | 7539 | 3099 | 10638 | 4547 | 604 | 5151 | 15789 |

* North American-Built (includes Mexico)
** Includes captives

Source: Motor Vehicle Manufacturers' Association (MVMA) and Ward's Automotive Reports

Canadian Car Sales* by Size by North American Companies, 1970-1988 (000 Units)

| Year | Sub- <br> Compact | Percent <br> Total | Compact | Percent <br> Total | Inter- <br> Mediate | Percent <br> Total | Full- <br> Size | Percent <br> Total | Luxury | Percent <br> Total | Total <br> Sales |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1970 | 9 | 1.8 | 101 | 20.4 | 156 | 31.5 | 215 | 43.4 | 14 | 2.8 | 495 |
| 1975 | 75 | 10.3 | 186 | 25.7 | 229 | 31.6 | 223 | 30.8 | 12 | 1.7 | 725 |
| 1979 | 152 | 17.6 | 237 | 27.5 | 243 | 28.2 | 203 | 23.5 | 27 | 3.1 | 862 |
| 1980 | 140 | 18.9 | 229 | 30.9 | 206 | 27.8 | 148 | 20.0 | 18 | 2.4 | 741 |
| 1981 | 137 | 21.5 | 198 | 31.1 | 184 | 28.9 | 105 | 16.5 | 13 | 2.0 | 637 |
| 1982 | 157 | 32.4 | 125 | 25.8 | 145 | 29.9 | 51 | 10.5 | 7 | 1.4 | 485 |
| 1983 | 206 | 33.6 | 135 | 22.0 | 198 | 32.2 | 66 | 10.7 | 9 | 1.5 | 614 |
| 1984 | 235 | 32.9 | 179 | 25.1 | 207 | 29.0 | 79 | 11.1 | 14 | 2.0 | 714 |
| 1985 | 237 | 30.3 | 202 | 25.8 | 246 | 31.5 | 80 | 10.2 | 17 | 2.2 | 782 |
| 1986 | 233 | 30.9 | 187 | 24.8 | 235 | 31.2 | 82 | 10.9 | 17 | 2.3 | 754 |
| 1987 | 107 | 14.6 | 298 | 40.5 | 230 | 31.3 | 68 | 9.3 | 32 | 4.4 | 735 |
| 1988 | 73 | 9.7 | 343 | 45.6 | 216 | 28.7 | 92 | 12.2 | 28 | 3.7 | 752 |

* Includes captives

Source: Motor Vehicle Manufacturers' Association by Ward's Classification

United States Sales of North American* Cars by Size, 1970-1988
(Units)

| Year | SubCompact | Percent Total | Compact | Percent Total | InterMediate | Percent Total | FullSize | Percent Total | Luxury | Percent Total | Total Sales |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1970 | 138 | 1.9 | 1157 | 16.2 | 2435 | 34.0 | 3033 | 42.4 | 389 | 5.4 | 7152 |
| 1975 | 1167 | 17.3 | 1679 | 24.8 | 1975 | 29.2 | 1588 | 23.5 | 352 | 5.2 | 6761 |
| 1979 | 1762 | 21.4 | 1936 | 23.5 | 2335 | 28.4 | 1709 | 20.8 | 484 | 5.9 | 8226 |
| 1980 | 1671 | 25.4 | 1675 | 25.5 | 1836 | 27.9 | 1075 | 16.3 | 321 | 4.9 | 6578 |
| 1981 | 1661 | 26.8 | 1523 | 24.5 | 1742 | 28.1 | 952 | 15.3 | 328 | 5.3 | 6206 |
| 1982 | 1739 | 30.2 | 1104 | 19.2 | 1618 | 28.1 | . 928 | 16.1 | 367 | 6.4 | 5756 |
| 1983 | 2035 | 29.9 | 925 | 13.6 | 2247 | 33.1 | 1158 | 17.0 | 431 | 6.3 | 6796 |
| 1984 | 2306 | 29.0 | 1309 | 16.5 | 2457 | 30.9 | 1232 | 15.5 | 647 | 8.1 | 7951 |
| 1985 | 1297 | 15.8 | 2563 | 31.2 | 2464 | 30.0 | 1077 | 13.1 | 804 | 9.8 | 8205 |
| 1986 | 1325 | 16.1 | 2461 | 30.0 | 2540 | 30.9 | 1116 | 13.6 | 772 | 9.4 | 8214 |
| 1987 | 1100 | 15.5 | 2389 | 33.7 | 2026 | 28.6 | 925 | 13.1 | 640 | 9.0 | 7080 |
| 1988 | 1019 | 13.5 | 2781 | 36.9 | 2017 | 26.8 | 1052 | 14.0 | 670 | 8.9 | 7539 |

* Includes Mexico but does not include captives

Source: Ward's Automotive Reports. 1970 through 1975 are registrations (figures are low because of incomplete reports from some states).
Subsequent years are retail sales.


Canada


United States

Canadian Sales of New Passenger Cars by Origin, 1965-1988
(000 Units)

| Year | $\begin{array}{c}\text { Total Sales } \\ \text { Volume }\end{array}$ | $\begin{array}{c}\text { Domestic* } \\ \text { Volume }\end{array}$ |  | Percent | $\begin{array}{c}\text { Offshore Imports** } \\ \text { Volume }\end{array}$ | $\begin{array}{c}\text { Imports from Japan } \\ \text { Percent }\end{array}$ | $\begin{array}{c}\text { Volume }\end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percent |  |  |  |  |  |  |  |$]$

* North-American Built (includes Mexico)
** Includes captives

Source: Statistics Canada


1987

U.S. Sales of New Passenger Cars by Origin, 1965-1988 (000 Units)

| Year | Total Sales Volume | Domestic* |  | Offshore Imports** |  | Imports from Japan** |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Volume | Percent | Volume | Percent | Volume | Percent |
| 1965 | 9233 | 8673 | 93.9 | 469 | 5.1 | 18 | 0.2 |
| 1970 | 8365 | 7116 | 85.1 | 1249 | 14.9 | 313 | 3.7 |
| 1975 | 8615 | 7050 | 81.8 | 1564 | 18.2 | 808 | 9.4 |
| 1979 | 10647 | 8328 | 78.2 | 2319 | 21.8 | 1834 | 17.2 |
| 1980 | 8979 | 6578 | 73.3 | 2400 | 26.7 | 1908 | 21.2 |
| 1981 | 8533 | 6206 | 72.7 | 2328 | 27.3 | 1859 | 21.8 |
| 1982 | 7979 | 5757 | 72.2 | 2222 | 27.8 | 1801 | 22.6 |
| 1983 | 9182 | 6795 | 74.0 | 2387 | 26.0 | 1916 | 20.9 |
| 1984 | 10391 | 7952 | 76.5 | 2439 | 23.5 | 1906 | 18.3 |
| 1985 | 11039 | 8205 | 74.3 | 2834 | 25.7 | 2218 | 20.1 |
| 1986 | 11453 | 8215 | 71.7 | 3238 | 28.3 | 2376 | 20.7 |
| 1987 | 10278 | 6886 | 67.0 | 3392 | 33.0 | 2330 | 22.7 |
| 1988 | 10638 | 7539 | 70.9 | 3099 | 29.1 | 2178 | 20.5 |

* North American-Built (includes Mexico)
** Includes captive imports for 1980 and subsequent years

Source: Ward's Automotive Reports

Road Motor-Vehicle Registrations in Canada, 1980-1987 (000 Units)

| Year | Passenger <br> Automobiles | Trucks and <br> Truck Tractors | Buses | Motorcycles | Mopeds | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1980 | 10256 | 2903 | 53 | 389 | NA | 118 | 13719 |
| 1981 | 10199 | 3138 | 54 | 407 | NA | 53 | 13851 |
| 1982 | 10530 | 3239 | 54 | 431 | NA | 55 | 14309 |
| 1983 | 10732 | 3308 | 55 | 466 | NA | 59 | 14620 |
| 1984 | 10781 | 3047 | 52 | 470 | NA | 56 | 14406 |
| 1985 | 11118 | 3095 | 53 | 453 | 35 | 64 | 14818 |
| 1986 | 11586 | 3156 | 56 | 430 | 35 | 72 | 15335 |
| 1987 | 11773 | 3508 | 59 | 414 | 34 | 76 | 15864 |
|  |  |  |  |  |  |  |  |

Source: Statistics Canada

International Sourcing Pattern of Original Equipment Parts of Four Major Motor-Vehicle Manufacturers * (Purchases from In-house Suppliers), 1965-1988 (\$ Millions)

| Model Year | U.S Purchases from In-house Suppllers In Canada | Canadian Purchases from In-house Suppllers In U.S.A. | $\begin{aligned} & \text { Column (A) } \\ & \text { Less } \\ & \text { Column (B) } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
|  | (A) | (B) |  |
| 1965 | 17 | 522 | (505) |
| 1970 | 454 | 1153 | (700) |
| 1975 | 797 | 2209 | (1412) |
| 1979 | 2362 | 4703 | (2 341) |
| 1980 | 1604 | 3992 | $(2388)$ |
| 1981 | 2119 | 4957 | $(2839)$ |
| 1982 | 2892 | 5374 | (2 483) |
| 1983 | 2360 | 5918 | (3 558) |
| 1984 | 3960 | 7813 | $(3854)$ |
| 1985 | 4621 | 8490 | $(3869)$ |
| 1986 | 4869 | 9710 | (4841) |
| 1987 | 4579 | 7251 | (2671) |
| 1988 | 3979 | 8752 | $(4773)$ |

[^0]Source: Compiled from company responses to the Reisman Inquiry (1965-1977) and company Auto Pact Reports (1979-1988)

International Sourcing Pattern of Original Equipment Parts of Four Major Motor-Vehicle Manufacturers * (Purchases from Independent Suppliers), 1965-1988
(\$ Millions)

| Model Year | U.S Purchases from Independent Suppliers In Canada | Canadian Purchases from Independent Suppliers in U.S.A. | $\begin{aligned} & \text { Column (A) } \\ & \text { Less } \\ & \text { Column (B) } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
|  | (A) | (B) |  |
| 1965 | 74 | 236 | (162) |
| 1970 | 487 | 505 | (18) |
| 1975 | 876 | 1051 | (175) |
| 1979 | 1812 | 1560 | 252 |
| 1980 | 1253 | 1226 | 27 |
| 1981 | 1385 | 1451 | (66) |
| 1982 | 1477 | 1844 | (367) |
| 1983 | 1922 | 2067 | (145) |
| 1984 | 2617 | 3034 | (418) |
| 1985 | 3381 | 3871 | (490) |
| 1986 | 3736 | 4619 | (883) |
| 1987 | 3819 | 4385 | (566) |
| 1988 | 3500 | 4838 | (1 338) |

* General Motors, Ford, Chrysler and Navistar

Source: Compiled from company responses to the Reisman Inquiry (1965-1977) and Company Auto Pact Reports (1979-1988)


Shipments

Value of Shipments in Canadian Automotive Industries, 1976-1988 (\$ Millions)

| Year | Motor-Vehicle Manufacturers | Truck Body \& Trailer Manufacturers | Motor Vehicle Parts \& Accessories Manufacturers | Total |
| :---: | :---: | :---: | :---: | :---: |
| 1976 | 7276 | 749 | 3418 | 11443 |
| 1977 | 8610 | 713 | 4139 | 13462 |
| 1978 | 10070 | 861 | 5120 | 16051 |
| 1979 | 10724 | 1042 | 4897 | 16663 |
| 1980 | 10071 | 978 | 4034 | 15083 |
| 1981 | 11403 | 1005 | 4879 | 17287 |
| 1982 | 12344 | 743 | 5877 | 18964 |
| 1983 | 15591 | 722 | 8358 | 24671 |
| 1984 | 21263 | 1002 | 11494 | 33759 |
| 1985 | 24599 | 1148 | 12923 | 38670 |
| 1986 | 25094 | 1302 | 12922 | 39318 |
| $1987{ }^{\text {e }}$ | 22154 | 1367 | 12739 | 36260 |
| $1988{ }^{\text {e }}$ | 26795 | 1433 | 13684 | 41912 |

Source: Statistics Canada
e: Estimate


Production

North American Production of Motor-Vehicles, 1965-1988 (000 Units)

| Year | Volume | Canada | Percent | Volume | U.S.A. | Percent |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |

Source: Ward's Automotive Reports

North American Production of Motor-Vehicles, 1965-1988 (000 Units)


North American Production of Passenger Cars, 1965-1988 (000 Units)
$\left.\begin{array}{crcccc}\hline \text { Year } & \text { Volume } & \text { Canada } & \text { Percent } & \text { U.S.A. } & \text { Percent }\end{array} \begin{array}{c}\text { North America } \\ \text { Total Volume }\end{array}\right]$

Source: Ward's Automotive Reports

Canadian Truck* Production, 1975-1988
(000 Units)

| Year | Light | Percent of Totai | Medium and Heavy-Duty | Percent of Total | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1975 | 367 | 94.8 | 20 | 5.2 | 387 |
| 1976 | 483 | 96.4 | 18 | 3.6 | 501 |
| 1977 | 576 | 95.7 | 26 | 4.3 | 602 |
| 1978 | 630 | 96.0 | 26 | 4.0 | 656 |
| 1979 | 607 | 95.6 | 28 | 4.4 | 635 |
| 1980 | 506 | 96.0 | 21 | 4.0 | 527 |
| 1981 | 480 | 96.6 | 17 | 3.4 | 497 |
| 1982 | 434 | 96.9 | 14 | 3.1 | 448 |
| 1983 | 539 | 98.5 | 8 | 1.5 | 547 |
| 1984 | 794 | 97.8 | 18 | 2.2 | 812 |
| 1985 | 834 | 97.4 | 22 | 2.6 | 856 |
| 1986 | 771 | 97.2 | 22 | 2.8 | 793 |
| 1987 | 816 | 97.4 | 22 | 2.6 | 838 |
| 1988 | 922 | 97.1 | 28 | 2.9 | 950 |

* Includes vans

Source: Ward's Automotive Reports
U.S. Truck* Production, 1965-1988
(000 Units)

| Year | Light | Percent of Total | Medium | Percent of Total | HeavyDuty | Percent of Total | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1965 | 1325 | 76.5 | 271 | 15.7 | 135 | 7.8 | 1731 |
| 1970 | 1359 | 80.3 | 194 | 11.5 | 140 | 8.3 | 1693 |
| 1975 | 1945 | 85.6 | 200 | 8.8 | 126 | 5.5 | 2271 |
| 1976 | 2637 | 88.5 | 199 | 6.7 | 143 | 4.8 | 2979 |
| 1977 | 3049 | 88.8 | 204 | 5.9 | 181 | 5.2 | 3434 |
| 1978 | 3263 | 88.0 | 224 | 6.0 | 219 | 5.9 | 3706 |
| 1979 | 2608 | 85.9 | 189 | 6.2 | 239 | 7.9 | 3036 |
| 1980 | 1387 | 83.2 | 100 | 6.0 | 181 | 10.9 | 1668 |
| 1981 | 1445 | 85.0 | 89 | 5.2 | 167 | 9.8 | 1701 |
| 1982 | 1721 | 90.3 | 49 | 2.6 | 136 | 7.1 | 1906 |
| 1983 | 2096 | 86.5 | 127 | 5.2 | 201 | 8.3 | 2424 |
| 1984 | 2769 | 90.0 | 68 | 2.2 | 238 | 7.7 | 3075 |
| 1985 | 3046 | 90.7 | 78 | 2.3 | 233 | 6.9 | 3357 |
| 1986 | 3128 | 92.2 | 51 | 1.5 | 213 | 6.3 | 3392 |
| 1987 | 3528 | 92.4 | 55 | 1.4 | 234 | 6.1 | 3817 |
| 1988 | 3810 | 92.5 | 62 | 1.5 | 249 | 6.0 | 4121 |

* Includes vans

Source: Ward's Automotive Reports

Top Ten Vehicle Manufacturers in the World by Total Output, 1986

| Company | Total Output (Units) |
| :---: | :---: |
| General Motors - U.S.A | 8391068 |
| Ford Motor - U.S.A. | 5758721 |
| Toyota - Japan | 3737309 |
| Volkswagen - West Germany | 2767621 |
| Nissan - Japan | 2594766 |
| Peugeot - Citroen - France | 1965310 |
| Renault - France | 1935579 |
| Chrysler - U.S.A | 1900971 |
| Fiat - Italy | 1775452 |
| Vaz-U.S.S.R. | 1675000 |

Source: Motor Vehicle Manufacturers' Association (MVMA) of the United States, World Motor Vehicle Data, 1988

World Motor-Vehicle Production by Country, 1965-1988
(000 Units)

|  | 1965 | 1970 | 1975 | 1980 | 1984 | 1985 | 1986 | 1987 | 1988 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Japan | 1876 | 5289 | 6941 | 11043 | 11393 | 12271 | 12260 | 12249 | 12700 |
| U.S.A. | 11118 | 8267 | 8991 | 8010 | 10924 | 11672 | 11373 | 10975 | 11262 |
| West Germany | 2976 | 3842 | 3186 | 3879 | 4046 | 4446 | 4578 | 4614 | 4625 |
| France | 1642 | 2750 | 2861 | 3378 | 3062 | 3016 | 3195 | 3493 | 3698 |
| U.S.S.R. | 634 | 916 | 1964 | 2199 | 2209 | 2200 | 2226 | 2100 | 2180 |
| Italy | 1176 | 1854 | 1459 | 1612 | 1601 | 1573 | 1913 | 1913 | 2111 |
| Canada | 852 | 1157 | 1446 | 1373 | 1878 | 1937 | 1864 | 1564 | 1960 |
| Spain | 229 | 536 | 814 | 1182 | 1309 | 1418 | 1307 | 1433 | 1866 |
| U.K. | 2177 | 2098 | 1648 | 1313 | 1134 | 1311 | 1203 | 1342 | 1545 |
| South Korea | 0 | 29 | 36 | 123 | 165 | 378 | 602 | 977 | 1084 |
| Brazil | 185 | 416 | 930 | 1165 | 836 | 967 | 1056 | 900 | 1069 |

Source: Automotive News (ranked by 1988 Production)


Investment

New Capital Expenditures In Canadian Automotive Industries, 1977-1988 (\$ Millions)

| Year | Motor Vehicle <br> Manufacturers <br> (SIC 323) | Truck-Body <br> Manufacturers <br> (SIC 324) | Motor Vehicle Parts <br> \& Accessories <br> (SIC 325) | Total |
| :---: | :---: | :---: | :---: | :---: |

* Preliminary

Source: Statistics Canada

New Capital Expenditures In Canadian Automotive Industries, 1977-1988 (\$ Millions)



Trade and Auto Pact Data

Canadian-Overseas Trade in Automotive Products*, 1965-1988 (\$ Millions)

|  | 1965 | 1970 | 1975 | 1980 | 1984 | 1985 | 1986 | 1987 | 1988 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Canadian Exports |  |  |  |  |  |  |  |  |  |
| Motor Vehicles | 92 | 141 | 421 | 634 | 346 | 216 | 222 | 187 | 303 |
| Parts | 32 | 99 | 180 | 420 | 280 | 307 | 418 | 382 | 346 |
| TIres And Tubes | 4 | 3 | 5 | 31 | 24 | 45 | 42 | 32 | 33 |
| Re-exports | 5 | 9 | 10 | 89 | 174 | 134 | 197 | 195 | 238 |
| Total | 133 | 252 | 616 | 1174 | 824 | 702 | 879 | 796 | 920 |
| Canadian Imports |  |  |  |  |  |  |  |  |  |
| Motor Vehicles | 115 | 240 | 410 | 1159 | 2176 | 3107 | 3954 | 4080 | 3936 |
| Parts | 21 | 130 | 206 | 355 | 1328 | 1459 | 1761 | 1831 | 1630 |
| Tires And Tubes | 2 | 19 | 82 | 208 | 207 | 207 | 220 | 261 | 243 |
| Total | 138 | 389 | 698 | 1722 | 3711 | 4773 | 5935 | 6172 | 5809 |
| Balances |  |  |  |  |  |  |  |  |  |
| Motor Vehicles | (23) | (99) | 11 | (525) | (1830) | ( 2891 ) | (3 732) | (3 893) | (3 633) |
| Parts | 11 | (31) | (26) | 65 | (1 048) | (1 152) | (1343) | (1 449) | (1 284) |
| Tires And Tubes | 2 | (16) | (77) | (177) | (183) | (162) | (178) | (229) | (210) |
| Re-exports | 5 | 9 | 10 | 89 | 174 | 134 | 197 | 195 | 238 |
| Total | (5) | (137) | (82) | (548) | ( 2887 ) | (4071) | (5056) | (5376) | (4889) |

* CKDs are included sometimes in the parts category and sometimes in the vehicle category.

[^1]Canada-United States Trade in Automotive Products, 1965-1988
(\$ Millions)

|  | 1965 | 1970 | 1975 | 1980 | 1984 | 1985 | 1986 | 1987 | 1988 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| United States Imports From Canada* |  |  |  |  |  |  |  |  |  |
| Cars | 74 | 1538 | 2858 | 4452 | 13085 | 15277 | 16428 | 13505 | 16326 |
| Trucks | 21 | 589 | 932 | 2218 | 5880 | 6422 | 5804 | 6838 | 7363 |
| Parts | 151 | 1127 | 2045 | 3405 | 10287 | 11512 | 11577 | 11579 | 11752 |
| Tires And Tubes | 4 | 15 | 68 | 231 | 598 | 592 | 675 | 661 | 520 |
| Total | 250 | 3269 | 5903 | 10306 | 29850 | 33803 | 34484 | 32583 | 35961 |
| Canadian Imports From United States |  |  |  |  |  |  |  |  |  |
| Cars | 94 | 659 | 2183 | 3388 | 6085 | 8566 | 8628 | 8691 | 8605 |
| Trucks | 60 | 275 | 942 | 1217 | 2039 | 2570 | 2824 | 3282 | 3076 |
| Parts | 797 | 2107 | 4425 | 7600 | 15446 | 17438 | 17635 | 16397 | 15348 |
| Tires And Tubes | 10 | 24 | 174 | 146 | 345 | 264 | 227 | 310 | 351 |
| Total | 961 | 3065 | 7724 | 12351 | 23915 | 28838 | 29314 | 28680 | 27380 |
| Balances |  |  |  |  |  |  |  |  |  |
| Cars | (20) | 879 | 675 | 1064 | 7000 | 6711 | 7800 | 4814 | 7721 |
| Trucks | (39) | 314 | (10) | 1001 | 3841 | 3852 | 2980 | 3556 | 4287 |
| Parts | (646) | (980) | (2 380) | $(4195)$ | (5 159) | $(5926)$ | (6058) | (4 818) | (3 596) |
| Tires And Tubes | (6) | (9) | (106) | 85 | 253 | 328 | 448 | 351 | 169 |
| Total | (711) | 204 | (1821) | (2 045) | 5935 | 4965 | 5170 | 3903 | 8581 |

* A more accurate measurement of trade in automotive products is obtained by comparing the import statistics of each country. Accordingly, Canadian exports are derived from the counterpart United States Statistics of Imports.

Source: Statistics Canada

Overall Net Production to Net Sales-Value Ratios* Achieved by Auto Pact Companies** in Canada, 1975-1988 (Percent)

|  | MODEL YEAR |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 |
| Passenger Vehicles |  |  |  |  |  |  |  |  |  |  |
| (Required Ratio: range 95-100) |  |  |  |  |  |  |  |  |  |  |
| Net Sales-Value Ratio Achieved <br> (All companies) | 122 | 106 | 123 | 202 | 196 | 173 | 174 | 177 | 162 | 153 |
| Commercial Vehicles |  |  |  |  |  |  |  |  |  |  |
| (Required Ratio: range 75-100) |  |  |  |  |  |  |  |  |  |  |
| Net Sales-Value Ratio Achieved <br> (All companies) | 101 | 115 | 140 | 238 | 272 | 231 | 192 | 191 | 159 | 133 |
| Buses |  |  |  |  |  |  |  |  |  |  |
| (Required Ratio: range 85-100) |  |  |  |  |  |  |  |  |  |  |
| Net Sales-Value Ratio Achieved <br> (All companies) | 114 | 199 | 273 | 213 | 243 | 312 | 324 | 239 | 163 | 189 |

[^2]Percent CVA/COS Achieved by Auto Pact Producers*, 1975-1988 (\$ Millions)

|  | 1975 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost of vehicle sales in Canada of Auto Pact producers (Model Year) | 4545 | 8757 | 8659 | 6327 | 6752 | 10281 | 13022 | 15002 | 15340 | 15440 |
| Total CVA produced (Model Year) | 2987 | 4659 | 5368 | 5759 | 5847 | 8504 | 10210 | 11282 | 10113 | 11035 |
| Difference between Cost of Sales and CVA produced | 1558 | 4020 | 3235 | 568 | 905 | 1777 | 2812 | 3720 | 5227 | 4405 |
| Total achieved CVA as percentage of Cost of Sales | 66 | 53 | 62 | 91 | 87 | 83 | 78 | 75 | 66 | 72 |

CVA = Canadian Value Added
COS $=$ Cost of Sales

* Based on 18 major manufacturers of vehicles

Source: Auto Pact company reports to Industry, Science and Technology Canada

Total Canadian Value-Added by Category of Production for the Three Major
Vehicle Manufacturers in Canada* , 1965-1988
(\$ Millions)

| Year | Non-Parts CVA In Vehicle Production | Parts CVA in Vehicle Production | CVA in original Equipment Parts Exported | Total Canadian Value-Added Produced | Parts CVA as Percent of Total CVA |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C | $D=A+B+C$ | $(B+C) / D$ |
| 1965 | 380 | 576 | 100 | 1056 | 64.0 |
| 1970 | 483 | 510 | 651 | 1644 | 70.6 |
| 1975 | 876 | 733 | 1106 | 2715 | 67.7 |
| 1980 | 1322 | 1087 | 1755 | 4164 | 68.3 |
| 1981 | 1345 | 1273 | 2218 | 4836 | 72.2 |
| 1982 | 1457 | 1233 | 2256 | 4946 | 70.5 |
| 1983 | 1604 | 1446 | 2542 | 4592 | 71.3 |
| 1984 | 1981 | 1797 | 3917 | 8695 | 77.2 |
| 1985 | 2182 | 3094 | 5095 | 10371 | 79.0 |
| 1986 | 2432 | 2501 | 5532 | 10465 | 76.8 |
| 1987 | 2365 | 1856 | 5124 | 9345 | 74.7 |
| 1988 | 2877 | 3114 | 5044 | 11035 | 73.9 |

* General Motors, Ford and Chrysler Canada

Source: 1965-1977 data prepared by the Reisman Commission; 1978-1988 data prepared by Industry, Science and Technology Canada


Employment

Employment Related to Automotive Manufacturing in Canada, 1965-1988 (000)


Employment Related to Automotive Manufacturing in the U.S., 1972-1988
Annual Average (000)

| Year | Total Motor Vehicles Equipment (SIC 371) | Motor Vehicles (3711) | Trucks and Bus Bodies (3713) | Parts and Accessories (3714) | Automotive Stamplngs (SIC 3465) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1972 | 875 | 415 | 46 | 383 | 105 |
| 1973 | 977 | 462 | 51 | 430 | 111 |
| 1974 | 908 | 416 | 55 | 403 | 96 |
| 1975 | 792 | 375 | 46 | 353 | 82 |
| 1976 | 881 | 416 | 44 | 399 | 100 |
| 1977 | 938 | 440 | 48 | 424 | 110 |
| 1978 | 977 | 452 | 51 | 444 | 114 |
| 1979 | 995 | 464 | 46 | 444 | 115 |
| 1980 | 789 | 368 | 40 | 350 | 95 |
| 1981 | 789 | 359 | 37 | 363 | 94 |
| 1982 | 705 | 321 | 31 | 325 | 82 |
| 1983 | 773 | 363 | 32 | 344 | 89 |
| 1984 | 867 | 389 | 40 | 388 | 99 |
| 1985 | 873 | 403 | 38 | 389 | 102 |
| 1986 | 843 | 381 | 38 | 379 | 101 |
| 1987 | 842 | 368 | 44 | 384 | 99 |
| 1988 | 850 | 358 | 75 | 397 | 96 |

Source: U.S. Bureau of Labor Statistics

Canadian Automotive Parts Industry by Number of Employees, 1986

| Number of <br> Employees | Number of <br> Establishments | Percent of Total <br> Establishments | Vaiue of Shipments <br> (\$ Million) | Percent of Total <br> Shipments |
| :--- | :---: | :---: | ---: | ---: |
| Fewer than 100 | 375 | 68.7 | 989531 | 7.7 |
| $100-500$ | 145 | 26.5 | 4250070 | 32.9 |
| 500 or more | 26 | 4.8 | 7682123 | 59.4 |
| Total | 546 | 100.0 | 12921724 | 100.0 |

Source: Statistics Canada


## Major Automotive Plants in Canada

## Major Motor-Vehicle Assembly Plants In Canada

## Location

Company/Plant Name

## British Columbia

| Burnaby | Freightliner of Canada Ltd. | Trucks (heavy-duty) |
| :--- | :--- | :--- |
| Kelowna | Western Star Trucks Inc. | Trucks (heavy-duty) |
| North Vancouver | Pacific Truck and Trailer Ltd. | Trucks (heavy-duty) |

## Manitoba

Winnipeg
Winnipeg

New Flyer Industries Ltd.
Motor Coach Industries Ltd.

## Honda of Canada Mfg. Inc.

Chrysler Canada Ltd. Jeep/Eagle Division
Chrysler Canada Ltd. Jeep/Eagle Division
Toyota Canada Inc.
Navistar International Corporation Canada

Canadian Automobile Mfg. Inc. (CAMI)
Ford Motor Company of Canada Ltd.
Ontario Truck plant (Ford)
Mack Canada Inc.

Main Products

Trucks (heavy-duty)

Buses
Buses

## Cars

Jeeps
Cars
Cars

Trucks (heavy-duty)
Cars/Trucks (light)
Cars
Trucks (light)
Trucks (heavy-duty)

Major Motor-Vehicle Assembly Plants In Canada

| Locatlon | Company/Plant Name | Main Products |
| :---: | :---: | :---: |
| Oshawa | General Motors of Canada Ltd. Truck plant (GM) | Cars (2 plants) Trucks (light) |
| Mississauga | Ontario Bus Industries Inc. | Buses |
| Scarborough | General Motors of Canada | Vans and Wagons |
| St. Thomas | Ford Motor Company of Canada Ltd. | Cars |
| Windsor | Chrysler Canada Ltd. | Vans and Wagons (2 plants) |
| Quebec |  |  |
| Bromont | Hyundai Auto Canada Inc. | Cars |
| Saint-Eustache | Greyhound Canada Inc. | Buses |
| Sainte-Claire | Prévost Car Inc. | Buses |
| Sainte-Thérèse | Canadian Kenworth Company (a division of Paccar Canada Ltd.) | Trucks (heavy-duty) |
| Sainte-Thérèse | General Motors of Canada | Cars |
| Nova Scotia |  |  |
| Halifax | Volvo Canada Ltd. | Cars |

[^3]
## A Partial List of Major Automotive Parts Plants in Canada

Company/Plant Name Location Maln Products

## In-house Facilities

## Chrysler Canada Ltd.

Trim plant
Aluminum casting plant

Trim plant
Trim plant

Ajax, Ontario
Etobicoke, Ontario

Stratford, Ontario
Guelph, Ontario

## Ford Motor Company of Canada Ltd.

Niagara glass plant
Essex engine plant
Ensite engine plant \#1
Ensite engine plant \#2
Foundry and casting plant
Essex aluminum plant
Ford Electronics.
Manufacturing Corp.

Niagara Falls, Ontario
Windsor, Ontario
Windsor, Ontario
Windsor, Ontario
Windsor, Ontario
Windsor, Ontario
Markham, Ontario

Door panels, seat cushions, backs
Pistons, water pump bodies, transmissions, transfer cases

Soft interior trim components
Plastic automotive components

Automotive glass
V6 engines
V8 engines
V8 engines and engine components
Iron castings
Aluminum castings
Radio and electronic components

| Company/Plant Name | Location | Main Products |
| :--- | :--- | :--- |
| General Motors of Canada Ltd. |  |  |
| Fabrication plant | Oshawa, Ontario | Stampings, batteries, radiators, instrument <br> clusters, plastics, reaction injection moulding |
| Engine plant | St. Catharines, Ontario | V6 and V8 engines |
| Foundry | St. Catharines, Ontario | Metal castings (ferrous and non-ferrous) |
| Axle plant | St. Catharines, Ontario | Axles, disc brakes, spark plugs, front <br> suspensions, transmission components |
| Engine plant | St. Catharines, Ontario | V6 engines |
| Trim plant | Windsor, Ontario | Trim sets, door covers |
| Transmission plant | Windsor, Ontario | Front-wheel-drive automatic transmissions |
| AP Parts of Canada | Rexdale, Ontario | Chatham, Ontario |
| Allied Signal Corp. | London, Ontario <br> Collingwood, Ontario <br> Stratford, Ontario | Induction systems, engine cooling fans, |
| electric drive cooling modules, cooling |  |  |

## A Partial List of Major Automotive Parts Plants in Canada

| Company/Plant Name | Location | Main Products |
| :---: | :---: | :---: |
| Foreign-owned Independent Manufacturers (larger facilities) |  |  |
| F\&PP Manufacturing | Tottenham, Ontario | Structural frame stampings |
| Fabricated Steel Products Ltd. | Windsor, Ontario | Stampings |
| Hayes-Dana Inc. | St. Catharines, Ontario Barrie, Ontario | Drive shafts, frames, axles |
| Kralinator Filters <br> Division of Hayes-Dana | Cambridge, Ontario | Oil, fuel and air filters |
| Lear Siegler Industries Limited | Ajax, Ontario Whitby, Ontario Lindsay, Ontario | Automotive seating |
| Motor Wheel Corporation of Canada Ltd. | Chatham, Ontario | Wheels, rims and flanges |
| PPG Canada Inc. | Toronto, Ontario Mississauga, Ontario Whitby, Ontario | Glass for automobiles, adhesives, coatings, paint, phosphating compounds |
| Rockwell International of Canada Ltd. | Lacolle, Quebec Tilbury, Ontario Mississauga, Ontario Bracebridge, Ontario Milton, Ontario | Coil springs, brakes, mechanical stampings plastic components |
| Standard Tube Canada Ltd. | Woodstock, Ontario | Axle components |
| Standard Products Canada | Stratford, Ontario | Weather stripping, engine and body mounts |
| TRW Canada, Thompson Products Division | St. Catharines, Ontario | Steering components, valves, electro-mechanical devices |

## A Partial List of Major Automotive Parts Plants in Canada

| Company/Plant Name | Location | Maln Products |
| :---: | :---: | :---: |
| Foreign-owned Independent Manufacturers (larger facilities) |  |  |
| Varity Corp. | Windsor, Ontario St. Catharines, Ontario | Wheels, brake parts |
| Varta Batteries Ltd. | Lachine, Quebec St. Thomas, Ontario Winnipeg, Manitoba | Batteries |
| Walker Exhausts | Cambridge, Ontario | Mufflers, tail and exhaust pipes |
| Waterville T.G. Inc. | Waterville, Quebec | Rubber products, padded auto instrument panels |
| Canadian-owned Companies |  |  |
| ABC Group of Companies | Rexdale, Ontario | Blow moulded automotive components |
| A.G. Simpson Co. Ltd. | Toronto, Ontario Windsor, Ontario | Stampings |
| Alcan Automotive Castings | St. Catharines, Ontario Montréal, Quebec Welland, Ontario Vancouver, B.C. | Aluminum cylinder heads, aluminum intake manifolds |
| Asbestonos | Montréal, Quebec | Brake and clutch products |
| Butler Metal Products Co. Ltd. | Cambridge, Ontario | Stampings |
| Canadian General Tower Ltd. | Cambridge, Ontario | Vinyl seat covers |
| Complax Corporation (The) | Windsor, Ontario | Compression and injection moulded components |


| Company/Plant Name | Location | Main Products |
| :---: | :---: | :---: |
| Canadian-owned Companies |  |  |
| Court Industries Limited | St. Catharines | Plating-zinc, copper, hard chrome, nickel, lead and phosphate, screw machine products. bonderizing, pressure tanks, transmission parts, gears, grinding and heat treating |
| Crila Plastic Industries Ltd. | Bolton, Ontario | Trim |
| Do-Ray Lamp Company (Canada) | Toronto, Ontario | Truck lighting and safety equipment |
| Dominion Automotive Industries | Toronto, Ontario | Protective lighting, mirrors, directional signals |
| Huron Steel Products | Windsor, Ontario | Stampings |
| Kendan Manufacturing Ltd. | Windsor, Ontario | Diesel engine components |
| Keystone A84A Industries | Richmond, B.C. | Wheels and wheel covers |
| Magna International Incorporated |  |  |
| Atoma Division | Newmarket, Ontario | Seatings, interior trim |
| Cosma Division | Brampton, Ontario | Stampings, exterior parts |
| Decoma Division | Concord, Ontario | Plastic interior and exterior parts Steel engine components |
| Tesma Division | Concord, Ontario | Steel engine components |
| National Auto Radiator Manufacturing Co. Ltd. | Windsor, Ontario | Stampings |
| Stelco Inc. (parts manufacturing only) | Gananoque, Ontario Toronto, Ontario | Fasteners and forgings |

## A Partial List of Major Automotive Parts Plants in Canada

\(\left.\begin{array}{lll}Company/Piant Name \& Location \& Main Products <br>

\hline Tamco Ltd. \& \bullet \quad Canadian-owned Companies\end{array}\right]\)| Gear-shift levers, steering-column jackets |
| :--- |
| Tridon Ltd. |
| Woodbridge Foam Corporation |

Asian Assembly Investment in Canada and the U.S.

| Company | Location | Announced Capacity (000) | Date Open | Products |
| :---: | :---: | :---: | :---: | :---: |
| Canada |  |  |  |  |
| Toyota | Cambridge, Ontario | 50 | 1988 | Cars |
| Honda | Alliston, Ontario | 80 | 1986 | Cars |
| Hyundai | Bromont, Quebec | 100 | 1989 | Cars |
| Suzuki | Ingersoll, Ontario | 200 | 1989 | Cars/Trucks (sport utility) |
| United States |  |  |  |  |
| Toyota | Georgetown, Kentucky Fremont, California Fremont, California | $\begin{array}{r} 200 \\ 250 \\ 100 \end{array}$ | $\begin{aligned} & 1988 \\ & 1984 \\ & 1991 \end{aligned}$ | Cars <br> Cars <br> Trucks (light) |
| Nissan | Smyrna, Tennessee Smyrna, Tennessee | $\begin{aligned} & 240 \\ & 200 \end{aligned}$ | $\begin{aligned} & 1983 \\ & 1992 \end{aligned}$ | Cars/Trucks (light) Cars |
| Honda | Marysville, Ohio Liberty, Ohio | $\begin{aligned} & 360 \\ & 150 \end{aligned}$ | $\begin{aligned} & 1982 \\ & 1991 \end{aligned}$ | Cars <br> Cars |
| Mistubishi | Bloomington-Normal, Illinois | 240 | 1988 | Cars |
| Mazda | Flatrock, Michigan | 240 | 1987 | Cars |
| Fuji/Isuzu | Lafayette, Indiana | 220 | 1989 | Cars/Trucks (light) |

Partial Listing* of Direct and Joint Ventures (as of June 1989)
Automotive Sector
Recent Offshore Investment in Canada

| Company | Location | Products |
| :--- | :--- | :--- |
| Auto Parts (Asia) |  |  |
| ABC/Nishikawa Industries | Rexdale, Ontario | Plastic parts |
| Bellmar Parts Ind. Canada | Alliston, Ontario | Automotive seating |
| Canadian Auto Parts Toyota Inc. | Delta, B.C. | Aluminum wheels |
| CoPar International | Oakville, Ontario | Automotive radiators cooling modules |
| Magna International/Daikyo Co. Ltd. | Markham, Ontario | Plastic trim |
| DDM Plastics | Mississauga, Ontario | Plastic injection moulded parts for |
| Dualtech | Tottenham, Ontario | Auto relays |
| F\&P Manufacturing | Woodstock, Ontario | Automotive seating dashboards |
| General Seating of Canada Ltd. | Kitchener, Ontario | Seat frames |
| Lear Siegler Seating Corp./NHK Spring Co., Ltd. | Hose and tube assemblies |  |
| Nichirin Rubber Inc. Co. Ltd. | Brantford, Ontario | Bearings |
| NTN Bearing Mfg. Canada | Mississauga, Ontario |  |

Partial Listing of Direct and Joint Ventures (as of June 1989)

## Automotive Sector

Recent Offshore Investment in Canada

| Company | Location | Products |
| :--- | :--- | :--- |
| Auto Parts (Asia) |  |  |
| Progressive Moulded Products Ltd. | Concord, Ontario | Cooling fans |
| Quality Safety Systems Co. | Tecumseh, Ontario | Seat belts |
| Rockwell International Suspension Systems | Milton, Ontario | Suspension systems |
| Yazaki Corp./VDO Instrument, Inc. | Barrie, Ontario | Meters |
| Vuteq Canada Corp. | Woodstock, Ontario | Auto glass |
| Waterville T.G. Inc. | Waterville, Quebec | Weather stripping |
| Woodbridge Inoac Inc. | SaintJérôme, Quebec | Instrument panels, interior trim |
| Yachiyo of Ontario Mfg. Ltd. | Barrie, Ontario | Plastic parts and fuel tanks |

Partial Listing of Direct and Joint Ventures (as of June 1989)
Automotive Sector
Recent Offshore Investment In Canada

| Company | Location | Products |
| :--- | :--- | :--- |
| Materials And Machine Tools (Asia) |  |  |
| Aclo Compounders Inc. | Cambridge, Ontario | Plastic compound |
| Aida Canada Inc. | Mississauga, Ontario | Stamping presses |
| Amada Co. of Canada | Oakville, Ontario | Metal fabricating equipment |
| Canada Mold Technology | Woodstock, Ontario | Moulds for plastic injection moulded |
| Fujima International Inc. | Markham, Ontario | Stamping dies |
| Sansho Kogyo Co. Ltd. | Elmira, Ontario | Welding/forging systems |
| Sunrise Automation Systems | Missisauga, Ontario | Welding equipment |
| Taikisha Ltd. | Mississauga, Ontario | Ruint finishing/design |
| Trutec Industries Canada Inc. | Ruroofing equipment |  |

# Partial Listing of Direct and Joint Ventures (as of June 1989) <br> Automotive Sector <br> Recent Offshore Investment In Canada 

| Company | Location | Products |
| :--- | :--- | :--- |
| Auto Parts (Europe) <br> Bauerhin Heating Elements Inc. |  |  |
| Degussa Canada Ltd. | Leamington, Ontario | In-seat heaters |
| Edscha of Canada | Burlington, Ontario | Automotive emission catalysts |
| General Tire | Niagara Falls, Ontario | Hinges/door fasteners |
| Joh Rubber Inc. | Barrie, Ontario | Plant modernization and expansion (tires) |
| Kautex of Canada Inc. | Leamington, Ontario | Engine cover rubber seals |
| Kuester Control Cables Inc. | Niagara Falls, Ontario | Blow moulded gas tanks |
| Magna-Lemmerz | Collingwood, Ontario | Aluminum wheels |
| Michelin Tires (Canada) Ltd. | Bridgewater, Nova Scotia <br> Granton, Nova Scotia | Plant modernization and expansion <br> (tires) |
| Société industrielle et financière Montupet | Waterville, Nova Scotia | Rivière-Beaudette, Guebec |

Partial Listing of Direct and Joint Ventures (as of June 1989)
Automotive Sector
Recent Offshore Investment In Canada

| Company | Location | Products |
| :--- | :--- | :--- |
| Auto Parts (Europe) | Kitchener, Ontario | Exterior trim |
| Pebra Inc. | Stevensville, Ontario | Aluminum wheels |
| Ronal Canada Inc. | Mississauga, Ontario | Windshield wiper motors/switches |
| SWF Auto Electric | Willowdale, Ontario | Batteries |
| Varta Batteries Ltd. | Barrie, Ontario | Aluminum wheels, catalytic converters |
| Volkswagen Canada Inc. | Whitby, Ontario | Rubber mounts |
| Wegu Canada Inc. |  |  |

*This listing includes joint ventures, direct investments and announced plans which may not yet have resulted in operational plants
Note: There are 126 joint ventures, 170 full (direct) and 6 undefined projects in auto parts and materials/machines for a total of 302 Japanese auto parts-related investments in the U.S.

Source: Complled by Industry, Science and Technology Canada from various sector sources

HD9710/.C22/A256
Canada. Industry, Science Statistical review of the
Canadian automotive
AIMO 1988 ISTC
date due - date de retour


ISTC 1551 (8/88)



[^0]:    * General Motors, Ford, Chrysler and Navistar

[^1]:    Source: Statistics Canada

[^2]:    * Net production to net sales-value ratio is the ratio of the total value of Canadian vehicle production to the total net sales value of vehicles sales for all Auto Pact companies ** Based on 18 major manufacturers

    Source: Compiled from company Auto Pact reports to Industry, Science and Technology Canada

[^3]:    Source: Compiled from information supplied by the companies

