* THE MOTOR INDUSTRY * OF JAPAN 2014

Total employment in auto manufacturing

& related industries: 5.47 million (8.7%)

Total employment

(workforce) in Japan: 63.11 million

(100%)

A Vast Range of Related Industries

Automobiles are the focus of an extremely wide range of industrial and related activity, from materials supply and vehicle production to sales, servicing, freight shipping and other auto-centered operations. Auto-related employment in Japan at present totals 5.47 million people.

● EMPLOYMENT IN THE AUTOMOBILE MANUFACTURING AND RELATED INDUSTRIES

Number of employees Automobile Production ······ 785,000 Automobile manufacturing (including motorcycles) 165,000 Auto parts and accessories manufacturing Auto body and trailer manufacturing 17,000 Road Transport ------ 2,810,000 ● Road freight transport ············ 1,793,000 ■ Road passenger transport ······ 622,000 ● Road transport-related services ······· 351,000 ● Vehicle rental services ······ 44,000 Automotive Fuel/Insurance/Recycling ······ 409,000 Automotive fuel retailing ······ 394,000 ● Auto damage insurance ······ 12,000 • Automobile recycling ······ 3,000 Materials & Equipment Supply 376,000 ● Electrical machinery & equipment ······ 63,000 Non-ferrous metals ······ 18,000 ● Iron & steel 108,000 Metal products ------ 33,000 Chemicals (including paints), textiles, and petroleum 20,000 ● Plastics, rubber, and glass ······ 84,000 ● Electronic parts & equipment ······ 23,000 ● Manufacturing machinery ······ 27,000 Sales & Services ------ 1,085,000 Automobile retailing (including motorcycles, used vehicles, and auto parts and accessories) 637,000 Automobile wholesaling (including motorcycles, used vehicles, and finished/used parts and accessories) 176,000

Note: Figures are rounded off to the nearest thousand.

● Automobile servicing ······· 272,000

Automobile Manufacturing Is an Integrated Industry

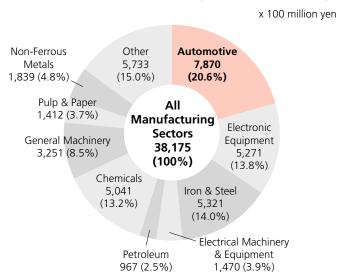
An automobile typically is composed of 20,000 to 30,000 parts, all of which even the largest manufacturers cannot produce themselves. Automakers therefore either outsource production or purchase finished products (such as tires, batteries, air conditioners and audio systems). Finished products purchased by the automakers include products manufactured abroad, and the volume of imported components increases yearly. Automobile manufacturing is thus an integrated industry because it relies on many supporting industries to produce the great diversity of materials and components it uses. Trends in the automobile industry, which makes huge investments in equipment and research-and-development activities, are considered a barometer of the economy.

PRINCIPAL MATERIALS AND COMPONENTS USED IN AUTOMOBILE MANUFACTURING

Cast iron	Engine parts, e.g. cylinder blocks
Common steel	Chassis, frames, wheel parts
Special steel	Gears, axle shafts, crankshafts, fuel injection equipment
Copper	Electricals, radiators, cables
Lead, tin, zinc	Engine metals, solder, body varnish, batteries
Aluminum	Engine parts (e.g. pistons, cylinder heads), wheels, chassis
Noble metals	Emissions aftertreatment parts
Other non-ferrous metals	Magnets, plating
Synthetic resin	Steering wheels, bumpers, radiator grilles, body components
Glass	Window glass, mirrors, headlamps
Rubber	Tires, sealing parts, vibration control parts
Ceramics	Plugs, electronic parts, sensors, emissions aftertreatment parts
Textiles	Seats, linings, seatbelts
Leather	Seats, packing
Paper	Filters
Wood	Load-carrying platforms, interior equipment
Paints	Ornamental and rustproof paints
Chemicals	Antifreeze, engine oil, transmission oil, brake oil
Animal and vegetable oils	For casting
Fats and oils	For lubrication, heat treatment, etc.

Springs, dampers						
Turbochargers						
Bearings						
Machined parts, e.g. pun	 nns					
Tires and tubes						
Batteries						
Window glass						
Onboard tools, e.g. jacks	; 					
Supplies, e.g. extinguishers, tire chains						
Electronic parts	Sensors, ECUs, actuators					
Lights, cables, optical fib	ers					
Air conditioners, air clea	ners					
Starters, alternators, gen	nerators, inverters, meters					
Audio systems, phones,	navigation systems					
Safety equipment, e.g. a traction control	nti-lock brakes, airbags,					
Coke	For casting					
Petroleum, electricity, natural gas	Fuel, heat treatment, paint drying, power generation					

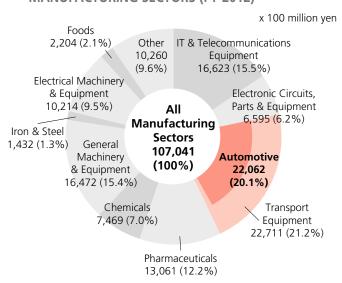
INVESTMENTS IN EQUIPMENT OF MAJOR MANUFACTURING SECTORS (PROJECTED, FY 2013)



Note: Japan's fiscal year (FY) starts on April 1 and ends on March 31 of the following year.

Source: Survey on Corporate Finance, Ministry of Economy, Trade and Industry

INVESTMENTS IN R&D OF MAJOR MANUFACTURING SECTORS (FY 2012)



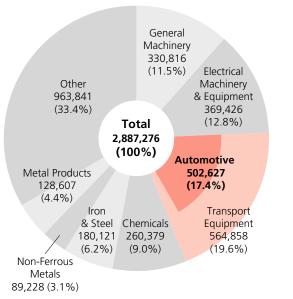
Source: Survey on Research Activities in Science and Technology, Ministry of Internal Affairs and Communications

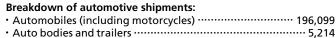
Automobile Manufacturing Is a Core Industry

The automotive industry is one of the Japanese economy's core industrial sectors. In 2012 automotive shipments accounted for 17.4% of the total value of Japan's manufacturing shipments, and 39.7% of the value of the machinery industries' combined shipments. Automotive shipments (both domestic and export shipments, including motorcycles, auto parts, etc.) in value terms totalled 50.3 trillion yen in 2012, up 14.3% from the previous year.

SHIPMENTS OF MAJOR MANUFACTURING **SECTORS IN VALUE TERMS (2012)**

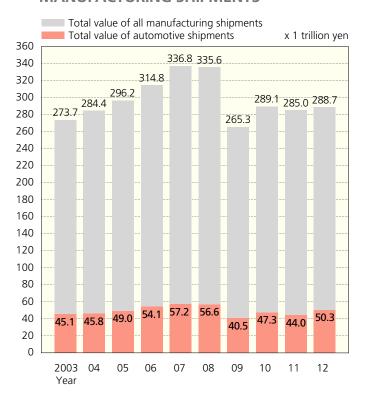






• Automotive parts and accessories 301,314

COMPARISON OF VALUE OF AUTOMOTIVE SHIPMENTS TO TOTAL VALUE OF ALL MANUFACTURING SHIPMENTS



SHIPMENTS OF MAJOR MANUFACTURING SECTORS IN VALUE TERMS

x 100 million yen

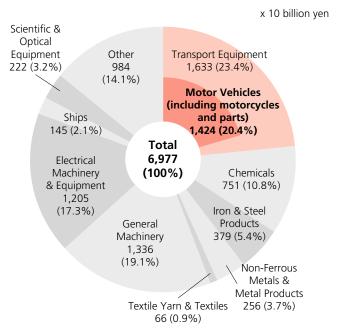
						Ма	chinery Ind	ustries				Automotive	Shipments
Year	Chemicals	Iron & Steel	Non-Ferrous Metals	Metal Products	General Machinery	Electrical Machinery & Equipment	Transport	Equipment Automotive	Subtotal	Other	Total	As % of Value of Machinery Shipments	As % of Total Value of Manufacturing Shipments
1970	55,402	65,648	30,547	37,277	68,028	73,305	72,758	54,673	223,008	287,383	690,348	24.5	7.9
1975	104,381	113,063	39,087	65,731	106,112	108,213	147,935	105,241	379,551	589,807	1,274,329	27.7	8.3
1980	179,787	178,956	81,186	106,465	175,998	222,346	249,536	212,346	682,457	952,724	2,146,998	31.1	9.9
1985	205,524	177,543	63,836	130,944	241,904	408,422	361,793	276,927	1,055,932	1,063,240	2,653,206	26.2	10.4
1990	235,030	182,687	78,217	185,736	332,249	545,286	468,582	423,106	1,397,439	1,205,939	3,233,726	30.3	13.1
1995	233,625	140,727	64,964	176,465	298,844	548,309	442,145	395,613	1,330,364	1,155,277	3,060,356	29.7	12.9
2000	237,994	119,630	62,189	155,868	304,132	595,817	444,474	400,429	1,385,612	1,115,720	3,035,824	28.9	13.2
2003	233,271	119,030	56,321	132,430	260,683	480,137	498,869	450,500	1,275,564	956,603	2,737,344	35.3	16.5
2004	241,493	141,413	61,931	134,543	290,742	498,469	506,995	458,122	1,335,931	968,597	2,844,183	34.3	16.1
2005	250,271	168,964	67,116	140,159	312,108	495,083	539,999	489,548	1,385,037	988,717	2,962,417	35.3	16.5
2006	261,995	184,727	90,162	144,510	333,313	511,634	598,356	541,091	1,484,034	1,023,649	3,148,346	36.5	17.2
2007	282,939	211,917	107,705	151,889	362,734	553,265	639,100	571,848	1,597,840	1,058,017	3,367,566	35.8	17.0
2008	281,299	243,322	104,805	151,492	402,477	518,797	637,666	566,053	1,558,940	1,015,930	3,355,788	36.3	16.9
2009	242,757	159,884	69,400	124,267	289,320	400,593	471,866	404,915	1,161,779	894,503	2,652,590	34.9	15.3
2010	262,120	181,463	89,114	122,920	306,186	442,848	542,136	472,962	1,291,170	944,290	2,891,077	36.6	16.4
2011	263,512	186,656	90,225	121,277	322,495	403,789	505,870	439,592	1,232,154	955,863	2,849,688	35.7	15.4
2012	260,379	180,121	89,228	128,607	330,816	369,426	564,858	502,627	1,265,100	963,841	2,887,276	39.7	17.4

Notes: 1. Shipments from all manufacturing operations with four or more employees are included in this data. 2. Compilation of data on production in value terms was discontinued in 1996 and replaced by data on shipments in value terms. 3. Figures in value terms include domestic consumption tax revenue from shipments. 4. "Electrical Machinery & Equipment" includes IT-related electronic parts and equipment as of 2002

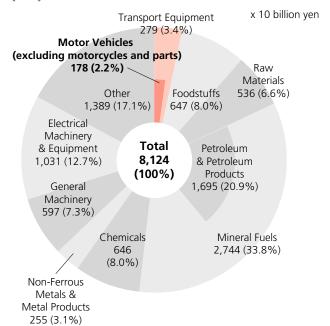
Motor Vehicle Exports and Imports Both Show an Increase

In 2013 Japan's gross exports rose by 9.5% from the previous year, and imports increased by 14.9%. In value terms, automotive exports grew 11.7% from 2012 to 14.2 trillion yen, with rises across the board in motor vehicle, motorcycle and parts exports. Automotive imports also increased, by 21.9% year-on-year to 1.8 trillion yen, with both motor vehicle and parts imports showing growth.

EXPORTS BY PRINCIPAL COMMODITY (FOB) IN 2013



IMPORTS BY PRINCIPAL COMMODITY (CIF) IN 2013



AUTOMOTIVE EXPORTS IN VALUE TERMS (FOB)

x 100 million yen

	Motor \	/ehicles				Export	s Total
Year		Chg. (%)	Passenger Cars, Trucks, Buses	Auto Parts	Motorcycles & Motorcycle Parts		Chg. (%)
2004	124,773	105.4	92,142	25,617	7,014	611,700	112.1
2005	135,132	108.3	99,288	28,006	7,839	656,565	107.3
2006	161,795	119.7	122,995	30,227	8,573	752,462	114.6
2007	185,267	114.5	143,170	33,555	8,543	839,314	111.5
2008	175,126	94.5	137,361	30,655	7,110	810,181	96.5
2009	93,679	53.5	66,933	23,089	3,657	541,706	66.9
2010	125,956	134.5	91,741	30,833	3,382	673,996	124.4
2011	115,417	91.6	82,042	29,972	3,403	655,465	97.3
2012	127,521	110.5	92,250	32,051	3,220	637,476	97.3
2013	142,411	111.7	104,125	34,762	3,524	697,742	109.5

AUTOMOTIVE IMPORTS IN VALUE TERMS (CIF)

x 100 million yen

	Motor Ve	ehicles			Import	s Total
Year		Chg. (%)	Passenger Cars, Trucks, Buses	Auto Parts		Chg. (%)
2004	12,842	108.8	9,055	3,787	492,166	110.9
2005	13,353	104.0	9,149	4,204	569,494	115.7
2006	14,412	107.9	9,163	5,249	673,443	118.3
2007	15,586	108.1	9,294	6,291	731,359	108.6
2008	14,160	90.9	7,499	6,662	789,548	108.0
2009	8,245	58.2	4,549	3,696	514,994	65.2
2010	10,836	131.4	5,957	4,879	607,650	118.0
2011	12,069	111.4	7,352	4,717	681,112	112.1
2012	14,631	121.2	9,082	5,549	706,886	103.8
2013	17,839	121.9	10,857	6,981	812,425	114.9

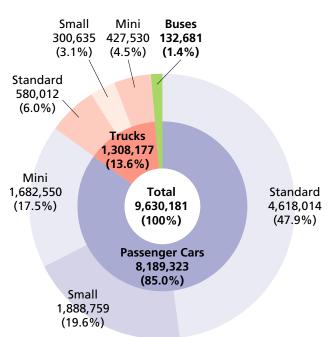
Notes: 1. "Passenger Cars, Trucks, Buses" includes chassis. 2. FOB: Free on board; CIF: Cost, insurance, and freight. 3. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

Motor Vehicle Production Down for First Time in 2 Years

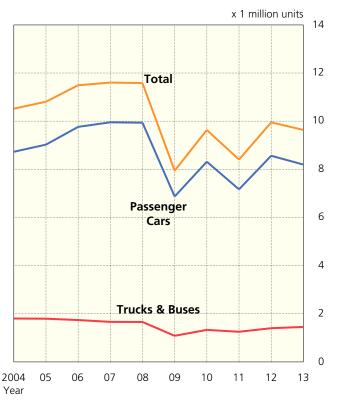
In 2013 motor vehicle production in Japan decreased for the first time in two years, totalling 9.63 million units, down 3.1% from the previous year. Passenger car production declined 4.3% to a total of 8.19 million units. Within that category, standard car and small car production dropped 1.5% and 16.2%, to 4.62 million and 1.89 million units respectively, whereas minicar production rose 4.2% to 1.68 million units. Truck and bus production showed an increase over 2012, growing 3.3% to 1.31 million units and 8.6% to 133,000 units, respectively.

MOTOR VEHICLE PRODUCTION BY TYPE **IN 2013**





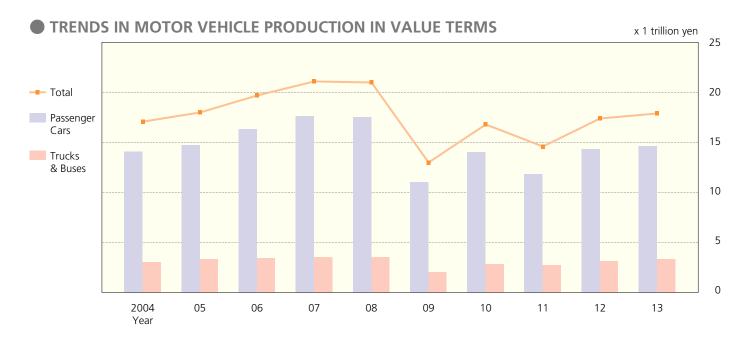
TRENDS IN MOTOR VEHICLE PRODUCTION



MOTOR VEHICLE PRODUCTION

		Pa	assenger Cai	rs						Trucks
Year	Standard	Small	Mini	Total			Standard			Small
i cai	Staridard	Jiliali	IVIIII	Total	Chg. (%)	Gasoline	Diesel	Subtotal	Gasoline	Diesel
1970	51,619	2,377,639	749,450	3,178,708	121.7	52,047	206,053	258,100	1,156,729	97,132
1975	209,032	4,198,550	160,272	4,567,854	116.2	84,304	203,866	288,170	1,441,759	168,716
1980	403,338	6,438,847	195,923	7,038,108	114.0	457,208	427,990	885,198	1,663,834	449,477
1985	494,792	6,991,432	160,592	7,646,816	108.1	842,792	435,420	1,278,212	1,218,423	659,470
1990	1,750,783	7,361,224	835,965	9,947,972	109.9	635,255	614,270	1,249,525	517,972	744,971
1995	2,553,703	4,140,629	916,201	7,610,533	97.5	232,514	591,626	824,140	304,495	604,826
2000	3,376,447	3,699,893	1,283,094	8,359,434	103.2	153,280	495,900	649,180	204,253	279,029
2004	4,044,563	3,309,147	1,366,675	8,720,385	102.9	127,529	642,424	769,953	261,902	184,634
2005	4,191,360	3,416,622	1,408,753	9,016,735	103.4	106,530	617,133	723,663	233,694	203,069
2006	4,915,428	3,302,265	1,537,210	9,754,903	108.2	96,083	603,327	699,410	213,687	205,717
2007	5,864,354	2,638,842	1,441,441	9,944,637	101.9	125,262	593,639	718,901	177,425	188,107
2008	5,786,333	2,714,413	1,427,397	9,928,143	99.8	121,443	613,480	734,923	163,237	166,521
2009	3,459,589	2,145,279	1,257,293	6,862,161	69.1	83,442	288,244	371,686	127,004	88,135
2010	4,846,411	2,159,119	1,304,832	8,310,362	121.1	75,016	445,611	520,627	133,043	105,733
2011	4,180,361	1,861,279	1,116,885	7,158,525	86.1	58,951	453,309	512,260	135,335	99,251
2012	4,686,396	2,252,672	1,615,435	8,554,503	119.5	73,016	510,140	583,156	162,012	113,980
2013	4,618,014	1,888,759	1,682,550	8,189,323	95.7	77,951	502,061	580,012	168,512	132,123

Notes: 1. Passenger cars and trucks are classified under Japan's Road Vehicles Act in three categories, based primarily on engine capacity: "standard" (over 2,000cc), "small" (661ccvehicle and have been treated as components since 1988. 3. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).



MOTOR VEHICLE PRODUCTION IN VALUE TERMS

x 1 million yen

V		Passeng	er Cars				Trucks				Buses		Grand
Year	Standard	Small	Mini	Total	Standard	Small	Mini	Tractors	Total	Large	Small	Total	Total
1985	895,041	7,049,323	85,925	8,030,289	1,793,000	1,519,934	679,498	46,745	4,039,177	103,053	101,007	204,060	12,273,526
1990	3,717,356	8,676,715	572,188	12,966,259	1,953,924	1,180,028	591,144	64,913	3,790,009	134,015	66,988	201,003	16,957,271
1995	5,147,637	4,869,427	790,303	10,807,367	1,619,428	849,511	510,579	124,764	3,104,282	107,647	89,441	197,088	14,108,737
2000	6,640,075	4,298,370	1,237,605	12,176,050	1,111,558	543,408	357,765	45,453	2,058,184	80,897	109,007	189,904	14,424,138
2004	8,836,999	4,067,398	1,146,115	14,050,512	1,805,315	561,422	333,606	89,959	2,790,302	105,985	129,577	235,562	17,076,376
2005	9,352,545	4,178,641	1,169,871	14,701,057	1,916,692	588,224	357,615	104,567	2,967,098	127,605	163,069	290,674	17,958,829
2006	10,891,826	4,088,449	1,333,394	16,313,669	2,029,030	574,272	352,050	122,267	3,077,619	131,726	203,231	334,957	19,726,245
2007	13,122,924	3,167,910	1,309,576	17,600,410	2,146,513	512,887	319,400	120,346	3,099,146	129,209	264,477	393,686	21,093,242
2008	13,006,119	3,207,109	1,293,624	17,506,852	2,110,682	463,435	312,374	136,277	3,022,768	136,115	313,594	449,709	20,979,329
2009	7,261,654	2,548,371	1,155,681	10,965,706	1,127,974	312,497	281,888	34,778	1,757,137	109,723	166,115	275,838	12,998,681
2010	10,239,303	2,609,861	1,207,423	14,056,587	1,684,489	358,081	323,800	75,944	2,442,314	118,300	211,359	329,659	16,828,560
2011	8,451,638	2,343,337	1,045,460	11,840,435	1,713,798	351,515	285,454	89,976	2,440,743	97,157	199,301	296,458	14,577,636
2012	9,683,441	3,091,067	1,486,926	14,261,434	1,954,449	422,502	302,836	106,209	2,785,996	120,992	237,199	358,191	17,405,621
2013	10,421,642	2,633,402	1,579,510	14,634,554	1,987,340	479,914	312,959	102,073	2,882,286	119,670	290,001	409,671	17,926,511

Source: Ministry of Economy, Trade and Industry

In vehicle units

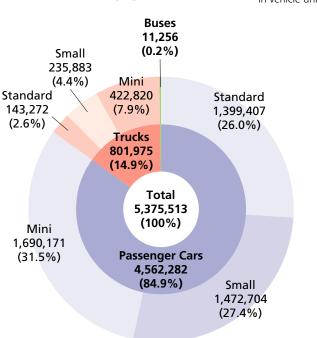
					Bus	ses				
	Mini	Total		Large	Small	Total		Total	Chg. (%)	Year
Subtotal	IVIIII	Total	Chg. (%)	(≥30 passengers)	(≤29 passengers)	Total	Chg. (%)		Cilg. (78)	i Cai
1,253,861	551,922	2,063,883	102.1	15,265	31,301	46,566	111.3	5,289,157	113.1	1970
1,610,475	438,987	2,337,632	90.8	13,624	22,481	36,105	78.8	6,941,591	105.9	1975
2,113,311	914,679	3,913,188	115.2	16,470	75,118	91,588	146.4	11,042,884	114.6	1980
1,877,893	1,388,583	4,544,688	105.2	15,547	64,044	79,591	110.2	12,271,095	107.0	1985
1,262,943	986,171	3,498,639	89.0	15,787	24,398	40,185	95.5	13,486,796	103.5	1990
909,321	804,276	2,537,737	93.9	12,814	34,452	47,266	96.2	10,195,536	96.6	1995
483,282	594,356	1,726,818	98.8	8,035	46,509	54,544	112.7	10,140,796	102.5	2000
446,536	514,202	1,730,691	99.1	12,286	48,156	60,442	99.0	10,511,518	102.2	2004
436,763	546,185	1,706,611	98.6	11,763	64,550	76,313	126.3	10,799,659	102.7	2005
419,404	521,879	1,640,693	96.1	11,063	77,574	88,637	116.1	11,484,233	106.3	2006
365,532	453,587	1,538,020	93.7	11,516	102,154	113,670	128.2	11,596,327	101.0	2007
329,758	443,718	1,508,399	98.1	11,660	127,442	139,102	122.4	11,575,644	99.8	2008
215,139	398,276	985,101	65.3	8,783	78,012	86,795	62.4	7,934,057	68.5	2009
238,776	449,776	1,209,179	122.7	10,274	99,060	109,334	126.0	9,628,875	121.4	2010
234,586	389,150	1,135,996	93.9	9,427	94,682	104,109	95.2	8,398,630	87.2	2011
275,992	407,206	1,266,354	111.5	10,598	111,622	122,220	117.4	9,943,077	118.4	2012
300,635	427,530	1,308,177	103.3	9,755	122,926	132,681	108.6	9,630,181	96.9	2013

2,000cc), and "mini" (660cc and under); see page 66 for details. 2. KD sets have been excluded since 1979; they represent less than 60% of the cost of compositional components per Source: Japan Automobile Manufacturers Association

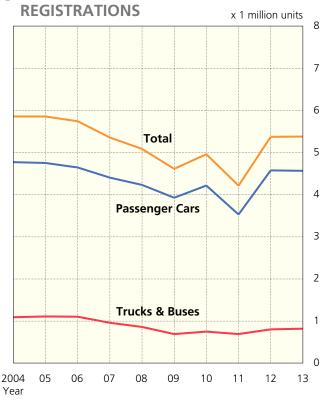
Motor Vehicle Sales Rise for Second Consecutive Year

Passenger car and commercial vehicle demand in Japan in 2013 totalled 5.38 million units, an increase of 0.1% from the previous year. Total passenger car sales declined 0.2% to 4.56 million units, with standard cars and small cars dropping 0.9% and 8.1%, to 1.40 million and 1.47 million units respectively, but minicars growing 8.5% to 1.69 million units. Meanwhile, sales of trucks increased 2.1% from 2012, to 802,000 units, whereas sales of buses fell 5.7% to 11,000 units.

NEW MOTOR VEHICLE REGISTRATIONS **BY TYPE IN 2013** In vehicle units



TRENDS IN NEW MOTOR VEHICLE



NEW MOTOR VEHICLE REGISTRATIONS

		P	assenger Ca	rs				Trucks		
Year	Standard	Small	Mini	Subtotal	Chg. (%)	Standard	Small	Mini	Subtotal	Chg. (%)
1970	9,068	1,652,899	717,170	2,379,137	116.8	168,086	986,673	538,743	1,693,502	95.6
1975	49,125	2,531,396	157,120	2,737,641	119.7	121,118	999,155	431,181	1,551,454	100.7
1980	71,931	2,608,215	174,030	2,854,176	94.0	154,472	1,144,167	839,308	2,137,947	102.2
1985	73,539	2,869,527	161,017	3,104,083	100.3	118,009	945,484	1,367,685	2,431,178	104.7
1990	467,490	3,839,221	795,948	5,102,659	115.9	193,775	1,449,678	1,006,456	2,649,909	93.7
1995	889,260	2,654,291	900,355	4,443,906	105.6	177,264	1,411,296	815,265	2,403,825	104.6
2000	770,220	2,208,387	1,281,265	4,259,872	102.5	84,626	1,015,313	586,660	1,686,599	99.6
2004	1,358,281	2,037,767	1,372,083	4,768,131	101.1	186,588	361,449	519,067	1,067,104	97.8
2005	1,271,349	2,089,992	1,387,068	4,748,409	99.6	197,548	351,708	536,648	1,085,904	101.8
2006	1,225,867	1,908,267	1,507,598	4,641,732	97.8	209,283	354,870	516,021	1,080,174	99.5
2007	1,299,168	1,654,025	1,447,106	4,400,299	94.8	171,998	293,021	472,713	937,732	86.8
2008	1,250,987	1,549,677	1,426,979	4,227,643	96.1	146,690	249,655	442,914	839,259	89.5
2009	1,160,175	1,480,137	1,283,429	3,923,741	92.8	87,692	180,509	404,742	672,943	80.2
2010	1,419,909	1,507,693	1,284,665	4,212,267	107.4	101,697	187,642	441,755	731,094	108.6
2011	1,139,910	1,246,126	1,138,752	3,524,788	83.7	107,290	185,097	382,393	674,780	92.3
2012	1,411,700	1,602,951	1,557,681	4,572,332	129.7	136,359	227,326	421,765	785,450	116.4
2013	1,399,407	1,472,704	1,690,171	4,562,282	99.8	143,272	235,883	422,820	801,975	102.1

Notes: 1. Chassis-based through 2002, data compilation became vehicle registration number-based as of 2003. 2. Truck figures include special-purpose vehicles (except large ones). 3. Data

● NEW MINI-VEHICLE SALES BY TYPE

In vehicle units

Year	Passenger Cars	Commercial Vehicles	Commercial Vehicles	Commercial Vehicles	Total		
1 041	(Minicars)	("Bonnet" minivans)	(Cab-over-engine minivans)	(Mini-trucks)	Total	Chg. (%)	
2004	1,372,083	77,297	183,995	257,775	1,891,150	104.8	
2005	1,387,068	77,547	197,141	261,960	1,923,716	101.7	
2006	1,507,598	68,714	204,838	242,469	2,023,619	105.2	
2007	1,447,106	57,509	196,040	219,164	1,919,819	94.9	
2008	1,426,979	51,622	185,806	205,486	1,869,893	97.4	
2009	1,283,429	42,932	167,358	194,452	1,688,171	90.3	
2010	1,284,665	41,630	180,505	219,620	1,726,420	102.3	
2011	1,138,752	33,023	168,705	180,665	1,521,145	88.1	
2012	1,557,681	27,730	198,843	195,192	1,979,446	130.1	
2013	1,690,171	25,199	194,728	202,893	2,112,991	106.7	

Note: "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

Source: Japan Mini Vehicles Association

RECREATIONAL VEHICLE (RV) SALES

In vehicle units

Year	Station Wagons	Vans	Off-Road	Minivans	Total	
		3 45	4WD Vehicles		. • • • • • • • • • • • • • • • • • • •	Chg. (%)
2004	669,501	7,347	170,447	1,230,788	2,078,083	96.1
2005	612,667	9,363	179,776	1,169,006	1,970,812	94.8
2006	509,936	9,406	211,135	1,126,216	1,856,693	94.2
2007	460,950	8,752	226,159	980,181	1,676,042	90.3
2008	454,164	9,396	213,209	938,694	1,615,463	96.4
2009	339,827	7,433	157,284	890,265	1,394,809	86.3
2010	365,565	8,762	195,783	946,473	1,516,583	108.7
2011	378,041	8,482	170,304	748,133	1,304,960	86.0
2012	430,995	10,165	212,341	902,715	1,556,216	119.3
2013	404,075	9,887	227,532	770,541	1,412,035	90.7

Note: "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

Source: Japan Automobile Dealers Association

In vehicle units

	Bus	ses								
Large	Small	Subtotal	Chg. (%)	Total	Chg. (%)	Total Vehicle	Chg. (%)	Total Mini-	Cha (0/)	Year
9-			Crig. (%)			Registrations	Crig. (%)	Vehicles	Chg. (%)	
10,256	17,572	27,828	104.2	4,100,467	106.9	2,844,554	104.9	1,255,913	111.7	1970
8,818	11,018	19,836	87.4	4,308,931	111.9	3,720,630	118.8	588,301	82.1	1975
9,414	13,973	23,387	97.5	5,015,510	97.3	4,002,172	93.1	1,013,338	118.3	1980
8,798	12,775	21,573	106.4	5,556,834	102.2	4,028,132	101.3	1,528,702	104.8	1985
9,162	15,763	24,925	105.9	7,777,493	107.2	5,975,089	107.4	1,802,404	106.3	1990
6,475	10,828	17,303	97.0	6,865,034	105.2	5,149,414	104.8	1,715,620	106.2	1995
4,333	12,238	16,571	114.5	5,963,042	101.7	4,095,117	102.7	1,867,925	99.7	2000
5,098	13,049	18,147	85.6	5,853,382	100.4	3,962,232	98.4	1,891,150	105.0	2004
5,856	11,898	17,754	97.8	5,852,067	100.0	3,928,351	99.1	1,923,716	101.7	2005
6,064	11,536	17,600	99.1	5,739,506	98.1	3,715,887	94.6	2,023,619	105.2	2006
5,153	10,464	15,617	88.7	5,353,648	93.3	3,433,829	92.4	1,919,819	94.9	2007
5,357	9,976	15,333	98.2	5,082,235	94.9	3,212,342	93.5	1,869,893	97.4	2008
4,234	8,338	12,572	82.0	4,609,256	90.7	2,921,085	90.9	1,688,171	90.3	2009
4,777	7,998	12,775	101.6	4,956,136	107.5	3,229,716	110.6	1,726,420	102.3	2010
3,136	7,515	10,651	83.4	4,210,219	84.9	2,689,074	83.3	1,521,145	88.1	2011
4,266	7,672	11,938	112.1	5,369,720	127.5	3,390,274	126.1	1,979,446	130.1	2012
4,181	7,075	11,256	94.3	5,375,513	100.1	3,262,522	96.2	2,112,991	106.7	2013

includes imported cars. 4. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

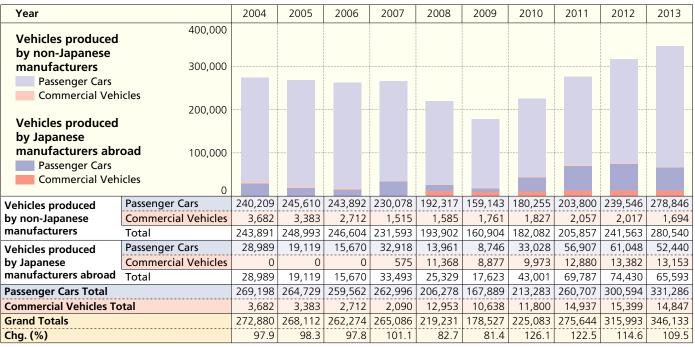
Sources: Japan Automobile Dealers Association; Japan Mini Vehicles Association

Sales of Imported Vehicles Rise for Fourth Consecutive Year

Imported vehicle sales in Japan in 2013 totalled 346,000 units, up 9.5% from the previous year. While passenger car sales climbed 10.2% to 331,000 units, commercial vehicles (trucks and buses) dipped 3.6% to under 15,000 units. Sales of used imported vehicles finished at 508,000 units, unchanged from the previous year, with passenger cars holding at 488,000 units, and trucks growing 5.4% to 15,000 units.

TRENDS IN IMPORTED MOTOR VEHICLE SALES

In vehicle units



Note: "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

Source: Japan Automobile Importers Association

IMPORTED MOTOR VEHICLES (ON CUSTOMS CLEARANCE BASIS)

In vehicle units

	Passenger		Commercial		Total Motor		
Year	Cars	Chg. (%)	Vehicles	Other	Vehicles	Chg. (%)	Motorcycles
1980	46,285	71.4	547	1,085	47,917	72.2	17,015
1985	52,225	118.3	380	546	53,151	118.4	7,087
1990	251,169	128.6	911	761	252,841	128.6	28,696
1995	401,836	136.0	2,469	390	404,695	130.3	43,936
2000	283,582	109.2	1,470	376	285,428	109.3	74,906
2004	286,798	101.9	1,715	748	289,261	102.0	485,572
2005	282,654	98.6	1,420	660	284,734	98.4	444,635
2006	278,726	98.6	1,615	654	280,995	98.7	458,966
2007	291,387	104.5	1,662	708	293,757	104.5	458,722
2008	228,255	78.3	14,288	796	243,339	82.8	413,817
2009	145,687	63.8	9,088	593	155,368	63.8	367,727
2010	230,791	158.4	11,922	780	243,493	156.7	353,260
2011	273,798	118.6	14,185	816	288,799	118.6	386,949
2012	333,380	121.8	15,107	948	349,435	121.0	421,991
2013	343,730	103.1	16,255	1,348	361,333	103.4	438,737

Notes: 1. "Other" denotes special-purpose vehicles and engine-mounted chassis. 2. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100). Source: Trade Statistics of Japan, Ministry of Finance

USED IMPORTED VEHICLE SALES

In vehicle units

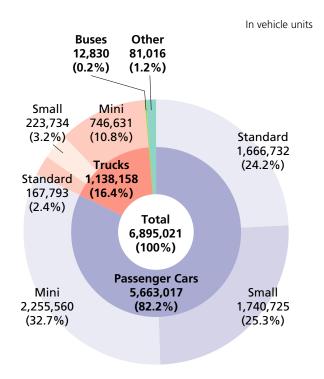
Year	Passenger Cars	Chg. (%)	Trucks	Chg. (%)	Special-Purpose Vehicles	Chg. (%)	Other	Total	Chg. (%)
2004	576,809	103.8	7,961	129.5	31,856	83.8	281	616,907	102.8
2005	588,397	102.0	9,468	118.9	27,269	85.6	228	625,362	101.4
2006	586,398	99.7	11,121	117.5	22,640	83.0	303	620,462	99.2
2007	543,211	92.6	12,518	112.6	17,574	77.6	204	573,507	92.4
2008	504,710	92.9	12,441	99.4	13,292	75.6	355	530,798	92.6
2009	470,986	93.3	12,547	100.9	10,083	75.9	165	493,781	93.0
2010	461,050	97.9	13,381	106.6	7,878	78.1	182	482,491	97.7
2011	462,435	100.3	14,370	107.4	6,756	85.8	164	483,725	100.3
2012	487,675	105.5	14,636	101.9	5,469	81.0	248	508,028	105.0
2013	487,750	100.0	15,428	105.4	4,724	86.4	220	508,122	100.0

Notes: 1. For motor vehicle classifications in Japan, see page 66. 2. "Other" includes buses, large special-purpose vehicles and small-sized three-wheeled trucks. 3. "Chg. (%)" means Source: Japan Automobile Importers Association change from the previous year (with the previous year's result indexed at 100).

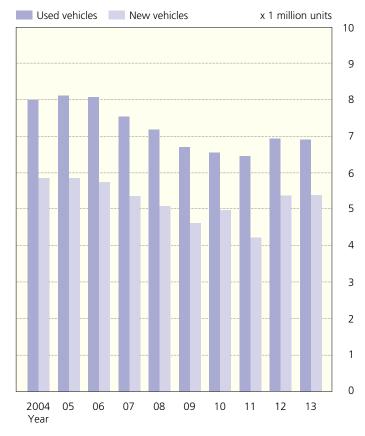
Growth in Sales of Used Mini Passenger Cars

In 2013 sales of used motor vehicles slipped 0.3% from the previous year to total 6.90 million units, marking the first decrease in two years. Used passenger car sales climbed 0.3% to 5.66 million units, with minicars growing 5.7% to 2.26 million units, but standard passenger cars and small cars dropping 1.3% to 1.67 million units and 4.7% to 1.74 million units, respectively. Sales of used trucks dipped 3.0% to 1.14 million units and sales of used buses shrank 13.3% to 13.000 units.

USED VEHICLE SALES BY TYPE IN 2013



TRENDS IN NEW AND USED MOTOR **VEHICLE SALES**



USED MOTOR VEHICLE SALES

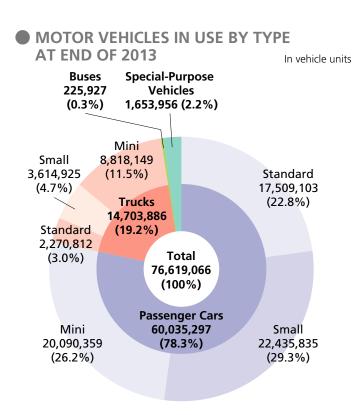
In vehicle units

		Pass	enger Caı	's				Trucks			Bus	es	Oth	er		
Year	Standard	Small	Mini	Subtotal	Chg. (%)	Standard	Small	Mini	Subtotal	Chg. (%)		Chg. (%)		Chg. (%)	Total	Chg. (%)
1985	160,150	3,295,092	356,726	3,811,968	100.9	139,459	589,321	1,125,545	1,854,325	108.3	11,655	103.1	44,620	116.7	5,722,568	103.3
1990	304,193	3,945,086	304,782	4,554,061	106.2	185,851	555,634	1,746,495	2,487,980	102.1	13,377	98.3	54,118	107.3	7,109,536	104.7
1995	994,311	3,845,076	727,259	5,566,646	106.6	221,523	521,244	1,538,718	2,281,485	102.2	13,327	105.4	84,409	119.1	7,945,867	105.4
2000	1,742,786	3,050,087	1,448,546	6,241,419	104.8	201,714	412,511	1,169,626	1,783,851	99.1	15,173	102.7	173,475	105.2	8,213,918	103.5
2004	1,984,562	2,524,764	1,777,866	6,287,192	98.9	225,715	363,523	972,000	1,561,238	93.9	17,240	99.1	136,242	87.9	8,001,912	97.6
2005	2,002,563	2,460,410	1,890,154	6,353,127	101.0	240,060	368,778	980,714	1,589,552	101.8	18,871	109.5	144,910	106.4	8,106,460	101.3
2006	1,959,739	2,304,226	2,033,569	6,297,534	99.1	244,770	365,180	1,003,607	1,613,557	101.5	20,643	109.4	135,130	93.3	8,066,864	99.5
2007	1,810,596	2,105,122	2,022,866	5,938,584	94.3	220,989	302,043	935,745	1,458,777	90.4	16,418	79.5	116,317	86.1	7,530,096	93.3
2008	1,728,090	1,944,766	1,995,333	5,668,189	95.4	225,848	278,673	884,836	1,389,357	95.2	16,193	98.6	104,516	89.9	7,178,255	95.3
2009	1,619,370	1,855,071	1,864,874	5,339,315	94.2	194,180	266,395	787,957	1,248,532	89.9	15,293	94.4	95,452	91.3	6,698,592	93.3
2010	1,592,110	1,816,696	1,873,466	5,282,272	98.9	177,327	245,642	732,854	1,155,823	92.6	14,163	92.6	87,238	91.4	6,539,496	97.6
2011	1,542,614	1,733,519	1,906,523	5,182,656	98.1	168,470	233,556	769,613	1,171,639	101.4	13,849	97.8	82,007	94.0	6,450,151	98.6
2012	1,688,606	1,826,335	2,133,725	5,648,666	109.0	168,439	235,246	769,469	1,173,154	100.1	14,799	106.9	82,484	100.6	6,919,103	107.3
2013	1,666,732	1,740,725	2,255,560	5,663,017	100.3	167,793	223,734	746,631	1,138,158	97.0	12,830	86.7	81,016	98.2	6,895,021	99.7

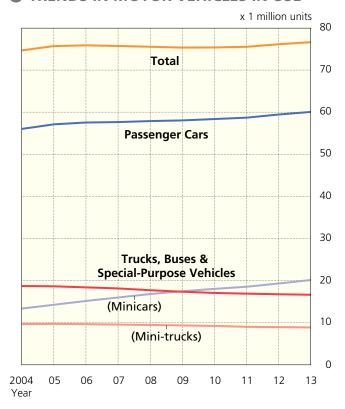
Notes: 1. Passenger cars and trucks are classified under Japan's Road Vehicles Act in three categories, based primarily on engine capacity: "standard" (over 2.000cc), "small" (661cc-2,000cc), and "mini" (660cc and under); see page 66 for details. 2. Includes imported vehicles. 3. "Other" refers to emergency vehicles, special vehicles equipped with beds, refrigerated trucks, tank trucks, tractors, bulldozers, steamrollers, snowplows, snowmobiles, etc., that are assigned special registration numbers. 4. "Chg. (%)" means change from the previous year Sources: Japan Automobile Dealers Association; Japan Mini Vehicles Association (with the previous year's result indexed at 100).

Slight Increase in Number of Motor Vehicles in Use

At the end of December 2013, motor vehicles in use in Japan (excluding motorcycles) totalled 76.6 million units, a 0.6% increase over the previous year. Passenger cars in use increased 1.0% to 60.0 million units, with standard and minicars growing 1.2% and 4.3% to 17.5 million and 20.1 million units respectively, but small cars dropping 1.9% to 22.4 million units. Meanwhile, trucks in use dipped 0.9% from 2012 to 14.7 million units, and buses in use slipped 0.1% to 226,000 units. At the end of March 2013, the average service life of motor vehicles in Japan was 12.58 years for passenger cars, 13.24 years for trucks, and 17.91 years for buses.



TRENDS IN MOTOR VEHICLES IN USE

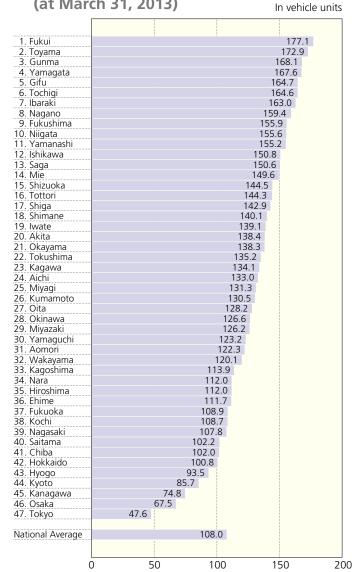


MOTOR VEHICLES IN USE (at end of every calendar year)

		P	assenger Ca	rs	126.6 798,256 4,478,486 3,005,017 8,281,759 108.7 1,158,465 6,100,206 2,785,182 10,043,853 104.4 1,494,464 7,155,221 4,527,794 13,177,479 102.6 1,668,852 6,679,665 8,791,289 17,139,806 107.1 2,176,488 6,609,536 12,535,415 21,321,439 104.7 2,574,433 6,213,405 11,642,311 20,430,149 102.5 2,596,421 5,474,660 10,154,427 18,225,508 101.4 2,464,873 4,694,922 9,621,053 16,780,848 102.0 2,474,378 4,594,363 9,665,130 16,733,871 100.8 2,465,823 4,431,103 9,602,484 16,499,410 100.2 2,455,268 4,323,579 9,495,420 16,274,267 100.4 2,386,255 4,102,553 9,407,694 15,896,502 100.3 2,319,612 3,952,534 9,288,679 15,560,825					
Year	Standard	Small	Mini	Subtotal	Chg. (%)	Standard	Small	Mini	Subtotal	Chg. (%)
1970	77,374	6,457,181	2,244,417	8,778,972	126.6	798,256	4,478,486	3,005,017	8,281,759	107.1
1975	207,511	14,417,680	2,611,130	17,236,321	108.7	1,158,465	6,100,206	2,785,182	10,043,853	98.9
1980	472,314	21,011,096	2,176,110	23,659,520	104.4	1,494,464	7,155,221	4,527,794	13,177,479	104.8
1985	711,914	25,116,179	2,016,487	27,844,580	102.6	1,668,852	6,679,665	8,791,289	17,139,806	105.5
1990	1,784,594	30,554,652	2,584,926	34,924,172	107.1	2,176,488	6,609,536	12,535,415	21,321,439	101.1
1995	7,874,189	31,030,462	5,775,386	44,680,037	104.7	2,574,433	6,213,405	11,642,311	20,430,149	98.9
2000	13,942,626	28,593,491	9,901,258	52,437,375	102.5	2,596,421	5,474,660	10,154,427	18,225,508	97.8
2004	16,295,520	26,401,167	13,297,363	55,994,050	101.4	2,464,873	4,694,922	9,621,053	16,780,848	98.2
2005	16,634,529	26,254,546	14,201,714	57,090,789	102.0	2,474,378	4,594,363	9,665,130	16,733,871	99.7
2006	16,714,523	25,698,303	15,108,217	57,521,043	100.8	2,465,823	4,431,103	9,602,484	16,499,410	98.6
2007	16,771,502	24,921,226	15,931,025	57,623,753	100.2	2,455,268	4,323,579	9,495,420	16,274,267	98.6
2008	16,748,373	24,356,113	16,760,486	57,864,972	100.4	2,386,255	4,102,553	9,407,694	15,896,502	97.7
2009	16,688,645	23,919,019	17,412,189	58,019,853	100.3	2,319,612	3,952,534	9,288,679	15,560,825	97.9
2010	16,890,402	23,470,003	17,986,982	58,347,387	100.6	2,281,711	3,825,632	9,177,282	15,284,625	98.2
2011	17,039,684	23,143,892	18,486,738	58,670,314	100.6	2,266,420	3,740,361	8,963,641	14,970,422	97.9
2012	17,294,021	22,868,749	19,258,239	59,421,009	101.3	2,266,836	3,672,649	8,895,635	14,835,120	99.1
2013	17,509,103	22,435,835	20,090,359	60,035,297	101.0	2,270,812	3,614,925	8,818,149	14,703,886	99.1

Notes: 1. "Special-purpose vehicles" refers to emergency vehicles, special vehicles equipped with beds, refrigerated trucks, tank trucks, tractors, bulldozers, steamrollers, snowplows, 100). 3. "Three-wheeled vehicles" includes three-wheeled passenger cars, trucks, and special-purpose vehicles.

PRIVATE PASSENGER CARS IN USE PER 100 HOUSEHOLDS BY PREFECTURE (at March 31, 2013)



Source: Automobile Inspection & Registration Information Association

PASSENGER CARS IN USE BY YEAR OF **FIRST REGISTRATION**

At March 31, 2013

Year of First Registration	Vehicles in Use	% of Total Vehicles in Use
April 2012-March 2013	2,852,325	7.13
April 2011-March 2012	2,700,809	6.75
April 2010-March 2011	2,599,759	6.50
April 2009-March 2010	2,757,357	6.89
April 2008-March 2009	2,329,711	5.82
April 2007-March 2008	2,624,404	6.56
April 2006-March 2007	2,669,682	6.67
April 2005-March 2006	2,839,793	7.10
April 2004-March 2005	2,797,473	6.99
April 2003-March 2004	2,568,232	6.42
April 2002-March 2003	2,500,240	6.25
April 2001-March 2002	2,029,742	5.07
April 2000-March 2001	1,899,781	4.75
April 1999-March 2000	1,411,057	3.53
March 1999	5,428,985	13.57
Total Vehicles in Use	40,009,350	100.00

AVERAGE AGE BY TYPE

In years

Year	Passenger Cars	Trucks	Buses
2004	6.58	8.17	9.33
2005	6.77	8.36	9.53
2006	6.90	8.50	9.61
2007	7.09	8.68	9.80
2008	7.23	8.98	10.02
2009	7.48	9.16	10.26
2010	7.56	9.62	10.50
2011	7.74	10.04	10.78
2012	7.95	10.43	11.12
2013	8.07	10.73	11.38

AVERAGE SERVICE LIFE BY TYPE

In years

Year	Passenger Cars	Trucks	Buses
2004	10.97	11.84	14.48
2005	10.93	11.72	15.34
2006	11.10	11.47	15.02
2007	11.66	11.92	14.83
2008	11.67	11.72	15.62
2009	11.68	13.50	15.00
2010	12.70	12.72	16.59
2011	12.43	13.04	17.37
2012	12.16	12.81	16.82
2013	12.58	13.24	17.91

1. "Average age" means the average number of years elapsed since first registration. 2. "Average service life" means average vehicle lifespan. 3. "Average age" and "average service life" figures are as at the end of every fiscal year. 4. The above three tables exclude mini-vehicles.

Source: Automobile Inspection & Registration Information Association

In vehicle units

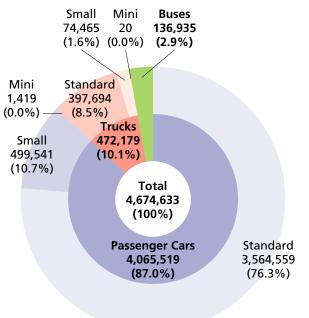
	Buse	! S		Special-Purp	ose Vehicles			22,079 243,934 .9 39,808 47,998 .5 56,804 17,724 .7 65,485 6,123		
Large	Small	Subtotal	Chg. (%)		Chg. (%)	Total	Chg. (%)	Trailers		Year
104,895	83,085	187,980	110.5	333,132	110.5	17,581,843	116.2	23,079	243,934	1970
102,186	124,098	226,284	101.7	584,100	101.7	28,090,558	104.9	39,808	47,998	1975
106,633	123,387	230,020	100.4	789,155	100.4	37,856,174	104.5	56,804	17,724	1980
108,967	122,261	231,228	100.5	941,647	100.5	46,157,261	103.7	65,485	6,123	1985
114,819	130,849	245,668	101.6	1,206,390	101.6	57,697,669	104.7	87,359	4,056	1990
114,478	128,617	243,095	99.1	1,500,219	99.1	66,853,500	102.8	120,171	3,621	1995
110,046	125,437	235,483	99.9	1,750,733	99.9	72,649,099	101.3	133,676	3,827	2000
109,703	121,231	230,934	99.6	1,649,686	99.6	74,655,518	100.6	142,032	3,471	2004
109,917	121,816	231,733	100.3	1,630,062	98.8	75,686,455	101.4	147,626	3,280	2005
109,763	121,918	231,681	100.0	1,606,934	98.6	75,859,068	100.2	151,441	3,238	2006
109,621	121,307	230,928	99.7	1,585,873	98.7	75,714,821	99.8	154,798	3,201	2007
109,808	120,873	230,681	99.9	1,536,160	96.9	75,528,315	99.8	157,951	3,119	2008
108,760	119,637	228,397	99.0	1,515,411	98.6	75,324,486	99.7	152,381	3,127	2009
108,136	119,135	227,271	99.5	1,502,593	99.2	75,361,876	100.0	152,834	3,120	2010
107,435	118,513	225,948	99.4	1,646,203	109.6	75,512,887	100.2	154,100	3,089	2011
107,528	118,551	226,079	100.1	1,643,325	99.8	76,125,533	100.8	155,835	14,816	2012
107,723	118,204	225,927	99.9	1,653,956	100.6	76,619,066	100.6	157,212	15,478	2013

snowmobiles, etc., that are identified as special-purpose vehicles by special registration numbers. 2. "Chg. (%)" means change from the previous year (with the previous year's result indexed at Source: Ministry of Land, Infrastructure, Transport and Tourism

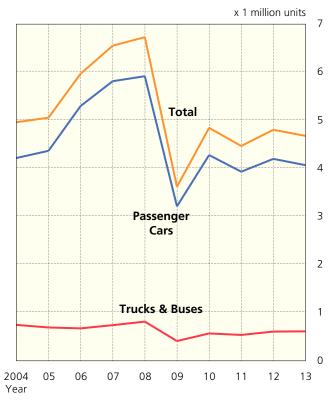
Motor Vehicle Exports Show First Decrease in 2 Years

Exports of motor vehicles in 2013 declined 2.7% from the previous year to 4.68 million units. Although bus exports grew 6.8% to 137,000 units, passenger car exports dropped 3.2% to 4.07 million units and truck exports slipped 1.0% to 472,000 units. With the value of automobile exports decreasing 5.9% to US\$ 108.0 billion and the value of auto parts exports shrinking 2.8% to US\$ 42.1 billion, the total value of automotive exports thus fell 5.0% from 2012 to US\$ 150.1 billion.





TRENDS IN MOTOR VEHICLE EXPORTS

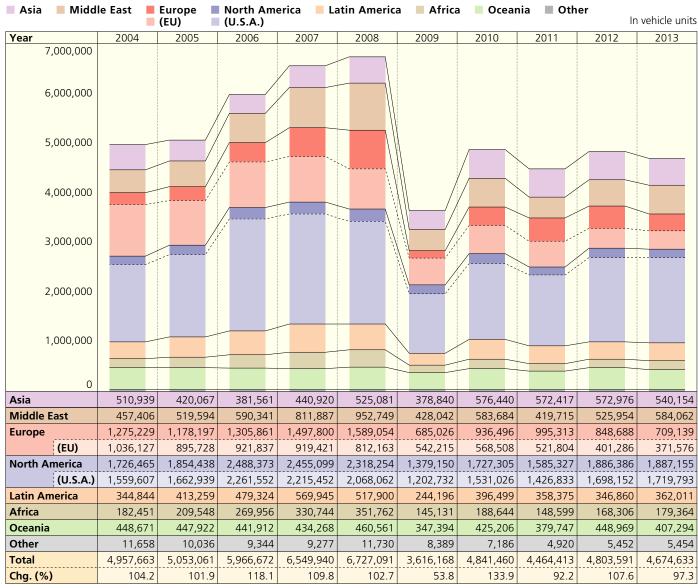


MOTOR VEHICLE EXPORTS

		ı	Passenger Cars					Trucks
Year	Standard	Small	Mini	Subtotal	Chg. (%)	Standard	Small	Mini
1970	715	5,450	10,136	725,586	129.5	65,170	272,549	13,892
1975	1,821	,835	5,451	1,827,286	105.8	168,370	643,232	22,071
1980	345,413	3,580,623	21,124	3,947,160	127.2	332,257	1,548,251	73,177
1985	493,047	3,932,414	1,301	4,426,762	111.2	1,196,973	1,029,757	11,374
1990	1,343,967	3,138,147	16	4,482,130	101.8	944,737	364,376	8
1995	1,156,122	1,732,050	8,044	2,896,216	86.2	612,654	236,929	276
2000	2,333,263	1,462,069	520	3,795,852	101.0	530,823	86,329	718
2004	2,995,259	1,217,013	1,755	4,214,027	103.3	591,233	96,453	109
2005	3,164,603	1,198,273	292	4,363,168	103.5	521,848	89,946	162
2006	3,845,081	1,449,608	808	5,295,497	121.4	488,632	89,201	141
2007	4,450,934	1,359,414	1,611	5,811,959	109.8	527,010	89,128	312
2008	4,379,569	1,534,975	885	5,915,429	101.8	567,596	90,581	41
2009	2,403,359	804,980	300	3,208,639	54.2	267,060	48,447	0
2010	3,453,951	818,660	2,755	4,275,366	133.2	397,404	52,908	0
2011	3,176,195	743,509	10,200	3,929,904	91.9	369,973	53,786	8
2012	3,550,010	641,749	6,735	4,198,494	106.8	410,251	66,652	16
2013	3,564,559	499,541	1,419	4,065,519	96.8	397,694	74,465	20

Notes: 1. Figures represent ex-factory export shipments of motor vehicles manufactured in Japan, which are classified in the above categories as per Japanese law, including the Road Vehicles Act. 2. Vehicle components per vehicle and have been treated as components since 1988. 4. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

MOTOR VEHICLE EXPORT TRENDS (BY REGION OF DESTINATION)



Note: "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

In vehicle units

			Bus	ses				
Subtotal	Chg. (%)	Large	Small	Subtotal	Chg. (%)	Total	Chg. (%)	Year
351,611	120.9	4,520	5,059	9,579	141.6	1,086,776	126.7	1970
833,673	95.3	6,406	10,247	16,653	104.3	2,677,612	102.3	1975
1,953,685	137.2	7,616	58,500	66,116	179.4	5,966,961	130.8	1980
2,238,104	108.0	6,249	59,357	65,606	116.7	6,730,472	110.2	1985
1,309,121	90.6	6,066	33,895	39,961	113.7	5,831,212	99.1	1990
849,859	82.8	8,028	36,706	44,734	60.8	3,790,809	85.0	1995
617,870	100.8	7,131	34,032	41,163	107.3	4,454,885	101.0	2000
687,795	109.1	11,692	44,149	55,841	122.5	4,957,663	104.2	2004
611,956	89.0	9,957	67,980	77,937	139.6	5,053,061	101.9	2005
577,974	94.4	11,567	81,634	93,201	119.6	5,966,672	118.1	2006
616,450	106.7	13,887	107,644	121,531	130.4	6,549,940	109.8	2007
658,218	106.8	17,574	135,870	153,444	126.3	6,727,091	102.7	2008
315,507	47.9	11,106	80,916	92,022	60.0	3,616,168	53.8	2009
450,312	142.7	13,969	101,813	115,782	125.8	4,841,460	133.9	2010
423,767	94.1	14,495	96,247	110,742	95.6	4,464,413	92.2	2011
476,919	112.5	19,026	109,152	128,178	115.7	4,803,591	107.6	2012
472,179	99.0	19,712	117,223	136,935	106.8	4,674,633	97.3	2013

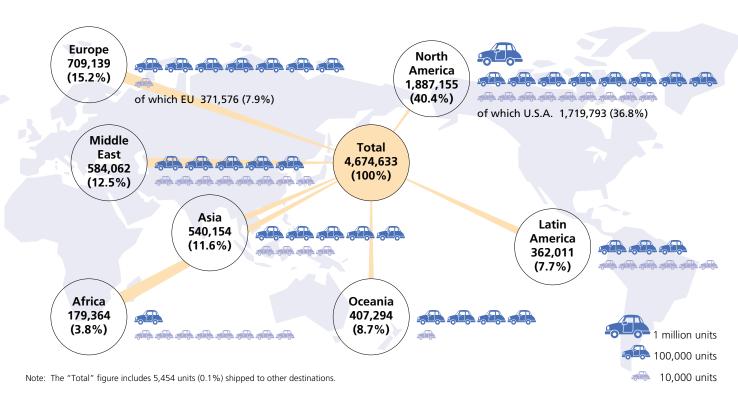
type classification in this table differs somewhat from that used in Ministry of Finance export data. 3. KD sets have been excluded since 1979; they represent less than 60% of the cost of compositional Source: Japan Automobile Manufacturers Association

An Increase in Motor Vehicle Exports to the Middle East, **Africa, and Latin America**

Compared to the previous year, motor vehicle exports in 2013 climbed 11.0% to the Middle East, 6.6% to Africa, and 4.4% to Latin America, but declined 16.4% to Europe, 9.3% to Oceania, and 5.7% to Asia. Motor vehicle exports to North America remained unchanged from the previous year's level.

MOTOR VEHICLE EXPORTS BY DESTINATION IN 2013

In vehicle units



MOTOR VEHICLE EXPORT TRENDS (BY REGION OF DESTINATION)

In %

Asia		10.3	8.3	6.4	6.7	7	.8	10.5	11.9	12.8	11.9	11.6
Middle Eas	st	9.2	10.3	9.9	12.4	1	1.2	11.8	12.1	9.4	11.0	12.5
Europe	(EU)	25.7 (20.9)	23.3 (17.7)	21.9 (15.4)	(14.0)	`\ 2	3.6 / 2.1)	19.0 (15.0)	19.3 (11.7)	22.3 (11.7)	17.7 (8.4)	15.2 (7.9)
North America	(U.S.A.)	34.8 (31.5)	36.7 (32.9)	41.7 (37.9)	37.5 (33.8)		1.5).7)	38.1 (33.3)	35.7 (31.6)	35.5 (32.0)	39.3 (35.4)	40.4 (36.8)
Latin Ame	rica	7.0	8.2	8.0	8.7	7	.7	6.8	8.2	8.0	7.2	7.7
Africa		3.7	4.1	4.5	5.1	5	.2	4.0	3.9	3.4	3.5	3.8
Oceania Other		9.1 0.2	8.9 0	.2 7.4			.8 0.2	9.6 0.	.2 8.8 0.	1 ^{8.5} 0.	1 ^{9.3} 0.1	8.7 0.1
		2004 Year	05	06	07	()8	09	10	11	12	13

● MOTOR VEHICLE EXPORTS BY DESTINATION IN 2013

In vehicle units

	_		Passeng	er Cars			Tru	cks			Buses		_
Des	stination	Standard	Small	Mini	Subtotal	Standard	Small	Mini	Subtotal	Large	Small	Subtotal	Total
Asia	South Korea China Taiwan	7,584 178,074 45,643	417 3,779 4,787	0 0	8,001 181,853 50,430	15 650 6,072	0 0 36	0 0	15 650 6,108	0 0 1,023	0 1,108 270	0 1,108 1,293	8,016 183,611 57,831
	Hong Kong Thailand	12,678 4,927 2,871	6,669 0 139	138 5 0	19,485 4,932	6,161 47,782	308 48 854	20 0 0	6,489 47,830 4,048	30 144 0	643 18,277 306	673 18,421 306	26,647 71,183
	Singapore Malaysia Philippines	23,885	9,451 965	14 0	3,010 33,350 11,595	3,194 14,878 3,724	2,460 952	0	17,338 4,676	498 207	4,588 10,277	5,086 10,484	7,364 55,774 26,755
	Indonesia Pakistan	19,038 78	4,874 5,058	0	23,912 5,136	42,860 1,983	0 84	0	42,860 2,067	1,584 393	673 466	2,257 859	69,029 8,062
	Other Subtotal	11,068 316,476	2,787 38,926	161	13,859 355,563	5,570 132,889	4,062 8,804	20	9,632	251 4,130	2,140 38,748	2,391 42,878	25,882 540,154
Middle	Bahrain	16,127	745	0	16,872	1,075	540	0	1,615	257	926	1,183	19,670
East	Saudi Arabia Kuwait Oman Israel	72,340 36,830 51,156 23,570	33,825 4,315 1,780 10,410	0 0 0	106,165 41,145 52,936 33,980	31,990 2,061 21,531 1,346	2,323 1,268 1,715 0	0 0 0	34,313 3,329 23,246 1,346	1,554 1,559 918 0	6,472 1,071 7,884 0	8,026 2,630 8,802 0	148,504 47,104 84,984 35,326
	United Arab Emirates Qatar Other	91,151 22,985 43,006	10,782 1,332 11,909	0 0 0	101,933 24,317 54,915	19,355 2,509 12,256	14,008 1,289 1,554	0 0 0	33,363 3,798 13,810	2,879 740 463	7,636 2,594 2,026	10,515 3,334 2,489	145,811 31,449 71,214
F	Sweden	357,165	75,098 581	6	432,263	92,123	22,697 0	0	114,820	8,370	28,609	36,979 0	584,062
Europe	Denmark UK Netherlands	17,029 3,430 59,558 23,141	870 10,819 1,135	3 0 50	17,616 4,303 70,377 24,326	3 0 208 0	0 0 0	0 0 0	0 208 0	0 0 0	0 0 0	0 0 0	17,619 4,303 70,585 24,326
	Belgium France E Germany U Spain	9,632 45,958 72,736 19,512	3,617 4,160 11,952 961	0 939 0 0	13,249 51,057 84,688 20,473	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	13,249 51,057 84,688 20,473
	Italy Finland Poland	19,727 5,585 11,028	4,054 420 307	0 0	23,781 6,005 11,335	2,077 0 1	0	0 0	2,077 0 1	0 0	0 0	0 0	25,858 6,005 11,336
	Austria Greece Other	16,064 297	2,756 278 671	0 0	18,820 575	49	0	0 0	49 0	0 0	27 0 0	27 0 0	18,896 575
	Subtotal	19,601 323,298 18,657	42,581 865	998 218	20,272 366,877 19,740	2,334 4,672 370	0	0	2,334 4,672 370	0	27 0	27 0	22,606 371,576 20,110
	Switzerland Russia Turkey Ukraine	16,325 246,634 3,550 18,863	3,489 10,215 3,784 929	0 0 0	19,814 256,849 7,334 19,792	211 4,124 4,920 420	0 1,728 303 0	0 0 0	211 5,852 5,223 420	0 1 0 0	0 503 0 11	0 504 0 11	20,025 263,205 12,557 20,223
	Other Subtotal	1,285 628,612	158 62,021	0 1,216	1,443 691,849	0 14,717	2,031	0	0 16,748	0	0 541	0 542	1,443 709,139
North America	Canada U.S.A.	155,335 1,544,245	10,432 152,915	40	165,807 1,697,160	1,555 20,746	0 1,887	0	1,555 22,633	0 0	0 0	0 0	167,362 1,719,793
	Subtotal	1,699,580	163,347	40	1,862,967	22,301	1,887	0	24,188	0	0	0	, ,
Latin America	Mexico Puerto Rico Colombia Ecuador Peru Chile Brazil Other	53,665 11,897 12,806 11,246 12,540 34,723 39,480 40,995	13,408 8,247 5,221 1,397 12,991 13,997 1 20,064	0 0 0 0 0 0	67,073 20,144 18,027 12,643 25,531 48,720 39,481 61,059	12,042 0 11,457 3,449 3,824 3,261 0 10,320	262 0 275 213 1,449 501 0 6,071	0 0 0 0 0 0	12,304 0 11,732 3,662 5,273 3,762 0 16,391	4 0 740 892 61 0 0	4,815 0 0 48 3,177 415 0 4,530	4,819 0 740 940 3,238 415 0 6,057	84,196 20,144 30,499 17,245 34,042 52,897 39,481 83,507
	Subtotal	217,352	75,326	0	292,678	44,353	8,771	0	53,124	3,224	12,985	16,209	362,011
Africa	Algeria Egypt Nigeria Kenya South Africa Other	2,045 2,539 1,407 938 21,652 11,471	3,288 12,179 275 25 6,486 5,087	0 0 0 0 0	5,333 14,718 1,682 963 28,138 16,560	7,836 13,284 386 6,418 15,956 8,560	529 23,316 253 398 1,176 2,046	0 0 0 0 0	8,365 36,600 639 6,816 17,132 10,606	1,951 629 791 13 0 513	910 3,150 5,723 145 13,260 4,727	2,861 3,779 6,514 158 13,260 5,240	16,559 55,097 8,835 7,937 58,530 32,406
	Subtotal	40,052	27,340	2	67,394	52,440	27,718	0	80,158	3,897	27,915	31,812	179,364
Oceania	Australia New Zealand Other	277,750 22,854 2,951	48,194 8,282 973	0 0 0	325,944 31,136 3,924	28,387 5,248 3,458	2,160 261 136	0 0	30,547 5,509 3,594	10 0 61	2,669 351 3,549	2,679 351 3,610	359,170 36,996 11,128
Other	Subtotal	303,555 1,767	57,449 34	0	361,004 1,801	37,093 1,778	2,557 0	0	39,650 1,778	71 19	6,569 1,856	6,640 1,875	407,294 5,454
Grand To	tals	3,564,559	499,541	1,419		397,694	74,465	20	472,179	19,712	117,223	·	4,674,633

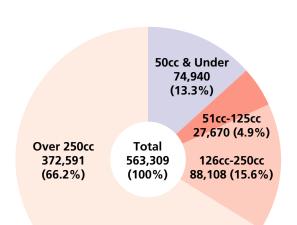
Source: Japan Automobile Manufacturers Association

Motorcycle Production Declines for Third Consecutive Year

Overall domestic motorcycle production in 2013 decreased 5.4% from the previous year to 563,000 units. Class 1 motor-driven cycles (50cc and under) fell 17.5% to 75,000 units, Class 2 motor-driven cycles (51cc to 125cc) plunged 30.1% to 28,000 units, mini-sized motorcycles (126cc to 250cc) dipped 4.2% to 88,000 units, and small-sized motorcycles (over 250cc) slipped 0.1% to 373,000 units. The combined total for larger motorcycles (all those over 50cc) dropped 3.2% from 2012 to 488,000 units.

MOTORCYCLE PRODUCTION BY ENGINE **CAPACITY IN 2013**

In vehicle units





MOTORCYCLE PRODUCTION

In vehicle units

			Over	50cc			
Year	Motor-Driven Cycles Class 1 (50cc & Under)	Motor-Driven Cycles Class 2 (51cc-125cc)	Mini-Sized Motorcycles (126cc-250cc)	Small-Sized Motorcycles (Over 250cc)	Subtotal	Total	Chg. (%)
1970	895,599	1,407,205	259,145	385,723	2,052,073	2,947,672	114.4
1975	1,030,822	1,887,701	331,733	552,291	2,771,725	3,802,547	84.3
1980	2,493,910	2,181,206	660,831	1,098,577	3,940,614	6,434,524	143.8
1985	2,014,850	1,373,423	469,728	678,346	2,521,497	4,536,347	112.7
1990	1,343,220	686,734	270,304	506,637	1,463,675	2,806,895	100.4
1995	951,803	1,038,938	217,738	544,760	1,801,436	2,753,239	101.0
2000	636,546	630,221	297,433	851,191	1,778,845	2,415,391	107.3
2004	331,449	304,622	271,126	832,387	1,408,135	1,739,584	95.0
2005	298,549	260,343	279,274	953,419	1,493,036	1,791,585	103.0
2006	306,246	149,868	276,043	1,039,229	1,465,140	1,771,386	98.9
2007	264,336	178,827	269,689	963,245	1,411,761	1,676,097	94.6
2008	162,928	128,381	192,863	742,667	1,063,911	1,226,839	73.2
2009	108,417	57,424	125,384	353,676	536,484	644,901	52.6
2010	87,513	80,630	108,950	387,082	576,662	664,175	103.0
2011	104,936	64,507	104,636	365,108	534,251	639,187	96.2
2012	90,886	39,569	91,925	373,093	504,587	595,473	93.2
2013	74,940	27,670	88,108	372,591	488,369	563,309	94.6

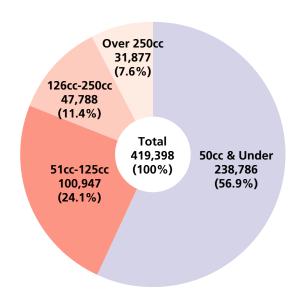
Notes: 1. KD sets have been excluded since 1979; they represent less than 60% of the cost of compositional components per vehicle and have been treated as components since 1988. 2. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

Overall Motorcycle Sales Show First Increase in 2 Years

Domestic motorcycle sales (defined here as ex-factory shipments to domestic dealers, not as new registrations) in 2013 totalled 419,000 units, up 4.4% from the previous year. By engine capacity, whereas sales of Class 1 motor-driven cycles (50cc and under) dropped 3.0% to 239,000 units, sales of Class 2 motor-driven cycles (51cc to 125cc), mini-sized motorcycles (126cc to 250cc), and small-sized motorcycles (over 250cc) grew 11.8%, 20.4%, and 23.5%, to 101,000, 48,000, and 32,000 units respectively. Overall sales of motorcycles with engine capacity over 50cc thus totalled 181,000 units, an increase of 15.9% over 2012.

MOTORCYCLE SALES BY ENGINE CAPACITY IN 2013

In vehicle units



TRENDS IN MOTORCYCLE SALES



MOTORCYCLE SALES (SHIPMENTS TO DOMESTIC DEALERS)

In vehicle units

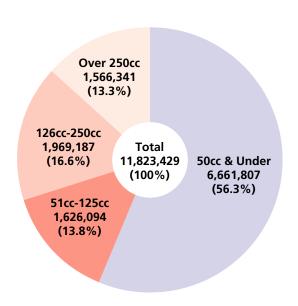
			Over	50сс			
Year	Motor-Driven Cycles Class 1 (50cc & Under)	Motor-Driven Cycles Class 2 (51cc-125cc)	Mini-Sized Motorcycles (126cc-250cc)	Small-Sized Motorcycles (Over 250cc)	Subtotal	Total	Chg. (%)
1980	1,978,426	200,238	88,188	103,184	391,610	2,370,036	122.7
1985	1,646,115	130,574	173,887	145,674	450,135	2,096,250	102.6
1990	1,213,512	169,618	158,882	76,921	405,421	1,618,933	97.6
1995	884,718	138,115	98,833	91,186	328,134	1,212,852	101.6
2000	558,459	102,116	72,886	46,416	221,418	779,877	93.2
2004	500,388	62,780	97,135	39,718	199,633	700,021	92.1
2005	470,922	88,747	99,658	47,186	235,591	706,513	100.9
2006	478,196	82,211	91,395	48,564	222,170	700,366	99.1
2007	458,023	100,720	86,081	40,120	226,921	684,944	97.8
2008	295,908	120,990	55,674	49,743	226,407	522,315	76.3
2009	255,561	65,888	37,180	22,148	125,216	380,777	72.9
2010	231,247	96,368	27,275	25,352	148,995	380,242	99.9
2011	257,045	95,702	31,767	21,019	148,488	405,533	106.7
2012	246,095	90,291	39,707	25,802	155,800	401,895	99.1
2013	238,786	100,947	47,788	31,877	180,612	419,398	104.4

Note: "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

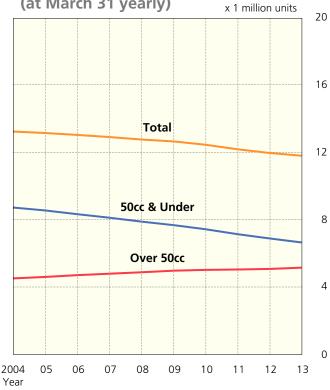
Continued Rise in Number of In-Use Motorcycles Over 50cc in Engine Capacity

As of March 31, 2013, the number of motorcycles in use in Japan dipped to 11.82 million, down 1.3% from the previous year. By engine capacity, Class 1 motor-driven cycles, which account for 56.3% of all motorcycles in use, dropped 3.4% to 6.66 million units, whereas Class 2 motor-driven cycles, mini-sized motorcycles and small-sized motorcycles in use rose 2.7%, 0.5% and 1.5%, to 1.63 million, 1.97 million and 1.57 million units respectively. Thus, motorcycles over 50cc in use increased 1.5%, to a total of 5.16 million units.

MOTORCYCLES IN USE BY ENGINE CAPACITY (at March 31, 2013) In vehicle units







MOTORCYCLES IN USE (at March 31 yearly)

In vehicle units

			Over	50cc			
Year	Motor-Driven Cycles Class 1 (50cc & Under)	Motor-Driven Cycles Class 2 (51cc-125cc)	Mini-Sized Motorcycles (126cc-250cc)	Small-Sized Motorcycles (Over 250cc)	Subtotal	Total	Chg. (%)
1970	3,727,426	4,431,745	583,316	109,771	5,124,832	8,852,258	100.5
1975	4,851,140	3,132,818	492,307	276,715	3,901,840	8,752,980	101.9
1980	8,794,335	2,281,006	506,567	383,639	3,171,212	11,965,547	109.8
1985	14,609,399	1,747,957	1,047,426	775,627	3,571,010	18,180,409	104.8
1990	13,539,269	1,517,228	1,669,771	1,045,519	4,232,518	17,771,787	97.6
1995	11,165,390	1,421,031	1,823,446	1,177,229	4,421,706	15,587,096	98.0
2000	9,643,487	1,337,395	1,704,522	1,288,399	4,330,316	13,973,803	98.0
2004	8,739,686	1,341,088	1,810,594	1,370,331	4,522,013	13,261,699	99.2
2005	8,566,613	1,353,732	1,857,439	1,397,392	4,608,563	13,175,176	99.3
2006	8,345,225	1,378,714	1,908,402	1,428,149	4,715,265	13,060,490	99.1
2007	8,134,692	1,397,085	1,950,512	1,452,893	4,800,490	12,935,182	99.0
2008	7,902,051	1,429,738	1,976,829	1,478,724	4,885,291	12,787,342	98.9
2009	7,694,009	1,479,588	1,996,311	1,505,304	4,981,203	12,675,212	99.1
2010	7,448,862	1,511,440	1,992,939	1,524,176	5,028,555	12,477,417	98.4
2011	7,154,455	1,540,667	1,975,623	1,535,181	5,051,471	12,205,926	97.8
2012	6,899,459	1,582,925	1,959,845	1,542,856	5,085,626	11,985,085	98.2
2013	6,661,807	1,626,094	1,969,187	1,566,341	5,161,622	11,823,429	98.7

Notes: 1. Motor-driven cycle data is as at April 1, and since 2006 motorcycles with engine capacity of 125cc and under whose owners fail to pay the mandatory motorcycle ownership tax are not included in this data. 2. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

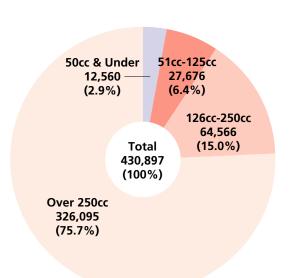
Sources: Ministry of Land, Infrastructure, Transport and Tourism; since 2006 (only for the 125cc-and-under categories), Ministry of Internal Affairs and Communications

Motorcycle Exports Decline for Second Consecutive Year

Motorcycle exports in 2013 decreased 10.1% from the previous year to 431,000 units. By engine capacity, exports of Class 1 motor-driven cycles, Class 2 motor-driven cycles, mini-sized motorcycles, and small-sized motorcycles dropped 29.4%, 22.2%, 7.7%, and 8.4%, to 13,000, 28,000, 65,000, and 326,000 units respectively. In 2013 the total value of motorcycle and motorcycle components exports decreased 9.5% to US\$ 4.1 billion, with the value of motorcycle exports declining 7.8% to US\$ 2.9 billion and the value of components exports falling 13.5% to US\$ 1.2 billion.

■ MOTORCYCLE EXPORTS BY ENGINE CAPACITY IN 2013

In vehicle units



TRENDS IN MOTORCYCLE EXPORTS



MOTORCYCLE EXPORTS

In vehicle units

			Over	50cc			
Year	Motor-Driven Cycles Class 1 (50cc & Under)	Motor-Driven Cycles Class 2 (51cc-125cc)	Mini-Sized Motorcycles (126cc-250cc)	Small-Sized Motorcycles (Over 250cc)	Subtotal	Total	Chg. (%)
1970	326,815	914,325	187,185	309,277	1,410,787	1,737,602	133.8
1975	288,843	1,546,170	328,313	527,344	2,401,827	2,690,670	83.0
1980	501,027	1,907,481	548,306	972,226	3,428,013	3,929,040	144.0
1985	369,167	1,350,412	296,865	525,038	2,172,315	2,541,482	119.7
1990	147,301	507,840	117,222	411,381	1,036,443	1,183,744	107.3
1995	61,627	691,433	129,961	442,689	1,264,083	1,325,710	94.2
2000	82,038	549,040	204,591	805,508	1,559,139	1,641,177	116.1
2004	84,832	265,245	173,037	804,030	1,242,312	1,327,144	103.6
2005	57,860	197,378	177,824	899,161	1,274,363	1,332,223	100.4
2006	57,558	124,335	183,980	968,153	1,276,468	1,334,026	100.1
2007	34,192	134,570	177,673	886,361	1,198,604	1,232,796	92.4
2008	36,234	95,114	149,530	721,309	965,953	1,002,187	81.3
2009	14,493	44,708	101,298	383,380	529,386	543,879	54.3
2010	11,522	48,976	85,506	347,460	481,942	493,464	90.7
2011	19,745	45,853	83,594	355,793	485,240	504,985	102.3
2012	17,794	35,579	69,963	355,827	461,369	479,163	94.9
2013	12,560	27,676	64,566	326,095	418,337	430,897	89.9

Notes: 1. Figures represent ex-factory export shipments of motorcycles manufactured in Japan. 2. Class 2 motor-driven cycles include three-wheeled motor-driven cycles. 3. KD sets have been excluded since 1979; they represent less than 60% of the cost of compositional components per vehicle and have been treated as components since 1988. 4. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

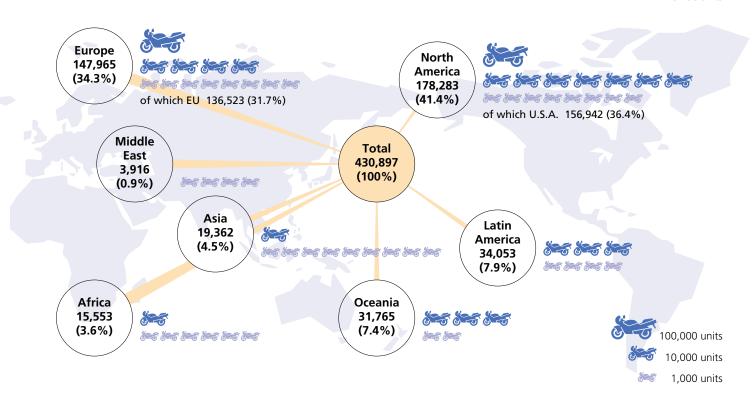
Source: Japan Automobile Manufacturers Association

A Decline in Motorcycle Exports to All Destinations

Motorcycle exports to all destinations decreased in 2013 from the previous year, dropping 31.3% to the Middle East, 29.4% to Latin America, 18.9% to Africa, 16.8% to Asia, 9.5% to Oceania and Europe, and 3.2% to North America.

■ MOTORCYCLE EXPORTS BY DESTINATION IN 2013

In vehicle units



● MOTORCYCLE EXPORT TRENDS (BY REGION OF DESTINATION)

In %

Asia		7.2	6.2	4.9	7.4	5.0	9.6	8.3	7.7	4.9	4.5
Middle Ea	st	0.4	0:6	0:5	0:6	0.8	0.7	0:8	0.8	1.2	0.9
Europe	(EU)	36.3 (35.1)	35.0 (33.8)	34.9 (33.7)	37.7 (36.5)	36.9 (35.6)	38.8 (37.1)	46.2 (44.4)	34.5 (33.1)	34.1 (31.9)	34.3 (31.7)
North America	(U.S.A.)	43.3 (39.6)	47.0 (42.6)	48.1 (44.7)	40.4 (36.9)	40.9 (37.2)	33.6 (29.5)	21.5 (17.8)	35.5 (32.6)	38.4 (34.8)	41.4 (36.4)
Latin Ame Africa Oceania	erica	6.5 2.4 3.9	4.0 2.6 4.6	3.7 2.9 5.0	5.0 3.1 5.8	6.3 3.4 6.7	4.6 4.5 8.2	7.9 5.2 10.1	9.1 4.2 8.2	10.1 4.0 7.3	7.9 3.6 7.4
		2004 Year	05	06	07	08	09	10	11	12	13

● MOTORCYCLE EXPORTS BY DESTINATION IN 2013

In vehicle units

		Na.4 D.:		Over	50cc		
De	stination	Motor-Driven Cycles Class 1 (50cc & Under)	Motor-Driven Cycles Class 2 (51cc-125cc)	Mini-Sized Motorcycles (126cc-250cc)	Small-Sized Motorcycles (Over 250cc)	Subtotal	Total
Asia	South Korea Taiwan Hong Kong Singapore Malaysia Philippines Other	0 12 0 0 0 3 59	0 920 10 13 3 0 228	0 0 74 42 39 1,720 435	1,034 2,266 2,070 1,857 6,058 260 2,259	1,034 3,186 2,154 1,912 6,100 1,980 2,922	1,034 3,198 2,154 1,912 6,100 1,983 2,981
Middle	Saudi Arabia		1,174	2,310	15,804	19,288	19,362
East	Israel United Arab Emirates Other	0 0 27 12	21 38 196 19	776 78 186 33	406 656 632 836	1,203 772 1,014 888	1,203 772 1,041 900
	Subtotal	39	274	1,073	2,530	3,877	3,916
Europe	Sweden Denmark UK Netherlands Belgium France Germany E Portugal U Spain Italy Finland Poland Hungary Greece Slovenia Czech Republic Other	0 0 0 0 618 243 0 42 39 75 0 0 0	0 0 196 1,331 22 4,010 570 0 517 175 64 0 2 0	334 111 755 2,745 1,590 1,810 9 265 883 67 176 105 19	884 180 7,876 15,149 340 38,959 29,634 630 5,825 16,514 544 432 589 669 346 383 637	1,218 291 8,827 19,225 377 44,559 32,014 639 6,607 17,572 675 608 696 688 360 395 740	1,218 291 8,827 19,225 377 45,177 32,257 639 6,649 17,611 750 608 696 688 375 395 740
	Subtotal	1,032	6,891	9,009	119,591	135,491	136,523
	Norway Switzerland Turkey Russia Other	0 21 0 60 0	5 32 0 20 0	100 175 18 130 17	310 6,183 1,680 2,438 253	415 6,390 1,698 2,588 270	415 6,411 1,698 2,648 270
	Subtotal	1,113	6,948	9,449	130,455	146,852	147,965
North America	Canada U.S.A. Subtotal	755 7,695 8,450	1,335 6,213 7,548	3,272 24,215 27,487	15,979 118,819 134,798	20,586 149,247 169,833	21,341 156,942 178,283
Latin America	Mexico Guatemala Nicaragua Panama Colombia Venezuela Peru Chile Brazil Argentina Other	0 6 0 0 0 0 0 0 39 0 0 79	0 14 0 35 66 0 12 98 59 0	290 606 160 151 5,453 840 1,731 578 227 75 1,086	1,492 1111 4 517 2,819 2,320 187 1,030 12,305 930 696	1,782 731 164 703 8,338 3,160 1,930 1,706 12,591 1,005 1,819	1,782 737 164 703 8,338 3,160 1,930 1,745 12,591 1,005 1,898
	Subtotal	124	321	11,197	22,411	33,929	34,053
Africa	Guinea Ghana Togo Mali Niger Rwanda Dem Rep Congo Ethiopia Kenya Uganda South Africa Malawi Other	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	233 70 990 446 458 565 1,868 0 321 510 438 188	378 38 150 210 132 0 58 2,074 163 36 966 91 681	0 0 0 0 0 0 0 0 17 1 1 0 2,103 0 506	611 108 1,140 656 590 565 1,926 2,091 485 546 3,507 279 2,974	54,633 611 108 1,140 656 590 565 1,926 2,091 485 546 3,576 279 2,980
	Subtotal	75	7,874	4,977	2,627	15,478	15,553
Oceania	Australia New Zealand Other	2,358 324 3	2,356 1,167 14	6,463 1,592 18	16,009 1,369 92	24,828 4,128 124	27,186 4,452 127
	Subtotal	2,685	3,537	8,073	17,470	29,080	31,765
Grand To	tals	12,560	27,676	64,566	326,095	418,337	430,897

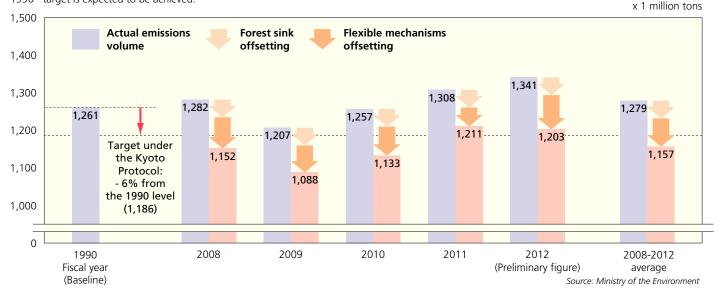
Source: Japan Automobile Manufacturers Association

Climate Change and CO₂ Emissions Reduction: The Response of the Transport Sector

Under the Kyoto Protocol, adopted in 1997 by most industrialized countries to reduce CO2 and other greenhouse gas emissions and enforced in February 2005, Japan pledged to reduce its average GHG emissions volume in the first commitment period (2008-2012) to 6% below the 1990 level. In April 2005, the Japanese government formulated a target achievement plan (revised in March 2008) and then promoted diverse CO2 reduction measures in all major sectors including the industrial, consumer, and transport sectors. In line with the national initiative, the automobile industry has been making vigorous efforts with respect to increasing vehicle fuel efficiency, developing and promoting alternative energy-powered vehicles, raising public awareness of eco-friendly driving practices, and supporting the government's efforts to improve traffic flow. After peaking in 2001, CO2 emissions in Japan's transport sector have been on a steady decline, owing largely to increased fuel efficiency in passenger cars, greater efficiency in goods distribution, and the widespread adoption of fuel-conserving ecodriving.

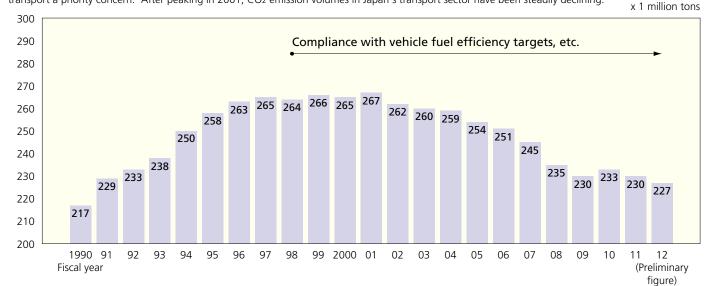
REDUCTIONS IN JAPAN'S GHG EMISSION VOLUMES

Japan's GHG emissions in 1990 totalled 1,261 million tons (in equivalent tons of CO₂). In order for Japan to meet its target under the Kyoto Protocol, it was determined that its average GHG emissions volume during the first commitment period (2008-2012) would have to be reduced to 1,186 million tons. Japan's GHG emissions in 2012 totalled 1,341 million tons (preliminary figure). When the forest sink and flexible mechanisms credits are taken into account, the average emissions volume for the 2008-2012 period shows an 8.2% reduction from the 1990 level, meaning that the "6% below 1990" target is expected to be achieved.



■ TRENDS IN CO₂ EMISSION VOLUMES IN JAPAN'S TRANSPORT SECTOR

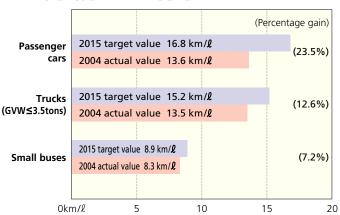
Of Japan's total CO2 emissions, the transportation sector accounts for roughly 20%, of which 90% are auto-emitted—making CO2 reduction in road transport a priority concern. After peaking in 2001, CO2 emission volumes in Japan's transport sector have been steadily declining.



CO2 Emissions Reduction: Improving Vehicle Fuel Efficiency

For gasoline-powered passenger cars and trucks weighing 3.5 tons or less, fuel efficiency targets for 2015 were formulated in 2007, applying "top runner" criteria whereby the target value for a given vehicle weight category is established based on the leading fuel efficiency performance to date for that weight category. The 2015 target for passenger cars signifies a nearly 24% increase in average fuel efficiency compared to the 2004 level. For heavy-duty vehicles (trucks and buses with GVW>3.5 tons), fuel efficiency targets—the first in the world—were introduced in 2006. Compliance here will mean that by 2015 the average fuel efficiency of heavy-duty vehicles will increase by over 12% compared to the 2002 level. Japan's automakers are working hard to further advance fuel efficiency technologies, aiming now to comply with an even more stringent target established in 2012 for passenger cars for enforcement in 2020.

2015 AVERAGE FUEL EFFICIENCY TARGETS FOR NEW PASSENGER CARS & TRUCKS/SMALL BUSES



Fuel efficiency here is JC08 test cycle-based (see page 67), and targets were Note: established assuming the same shipment volume ratios by vehicle weight category for 2015 as those recorded in 2004.

Sources: Ministry of Economy, Trade and Industry; Ministry of Land, Infrastructure, Transport and Tourism

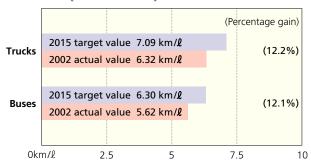
AVERAGE FUEL EFFICIENCY OF DOMESTIC NEW GASOLINE-POWERED PASSENGER



Note: All figures here have been converted from their 10 • 15-mode test cycle values to their JC08 test cycle values (see page 67)

Source: Japan Automobile Manufacturers Association

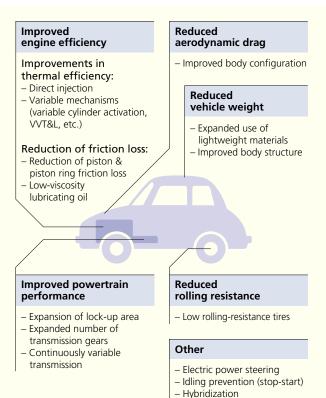
2015 AVERAGE FUEL EFFICIENCY TARGETS FOR NEW HEAVY-DUTY VEHICLES (GVW>3.5t)



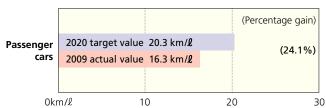
Fuel efficiency here is JE05 test cycle-based (see page 67), and targets were established assuming the same shipment volume ratios by vehicle weight category for 2015 as those recorded in 2002

Sources: Ministry of Economy, Trade and Industry; Ministry of Land, Infrastructure, Transport and Tourism

VEHICLE TECHNOLOGIES FOR INCREASED FUEL EFFICIENCY



2020 AVERAGE FUEL EFFICIENCY TARGET FOR NEW PASSENGER CARS



Note: Fuel efficiency here is JC08 test cycle-based (see page 67), and the target was established assuming the same shipment volume ratios by vehicle weight category for 2020 as those recorded in 2009.

Sources: Ministry of Economy, Trade and Industry; Ministry of Land, Infrastructure, Transport and Tourism

In-Use Status of Next-Generation Vehicles

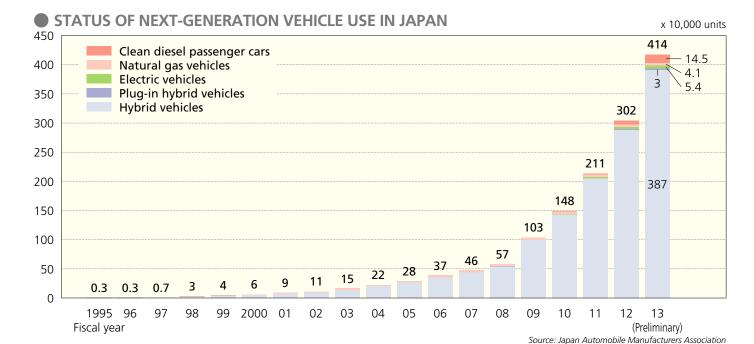
Beginning in April 2009, when the government's tax incentive/subsidy programs for the purchase of eco-friendly vehicles were first introduced, the share of next-generation vehicles (including hybrid, electric, fuel cell, natural gas, clean diesel, and other new-energy vehicles) in total passenger car sales surged. In 2013 about 4.14 million next-generation vehicles were in circulation in Japan, but this is still a very small number, accounting for only 5.4% of all the motor vehicles in use in Japan today. The more widespread use of these vehicles requires not only further advances in vehicle and related technologies, but also, among other government initiatives, the establishment of the necessary fuel/energy infrastructures and the continued provision of purchasing incentives.

TRENDS IN NEXT-GENERATION PASSENGER CAR NEW REGISTRATIONS

In vehicle units

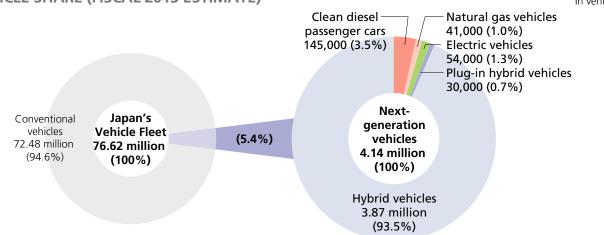
Fiscal Year	2009	2010	2011	2012	2013	
Hybrid vehicles	452,202	447,840	631,335	857,240	1,015,356	
Plug-in hybrid vehicles	0	0	3,742	13,178	12,972	
Electric vehicles	1,587	6,983	11,226	13,911	15,594	
Clean diesel vehicles	3,119	7,988	11,861	55,513	78,384	
Total	456,908	462,811	658,164	939,842	1,122,306	

Source: Japan Automobile Manufacturers Association



COMPOSITION OF JAPAN'S VEHICLE FLEET, WITH BREAKDOWN OF NEXT-GENERATION VEHICLE SHARE (FISCAL 2013 ESTIMATE)

In vehicle units



Note: Figures are rounded off.

Promoting Fuel-Conserving Ecodriving

Individual drivers can increase fuel efficiency and thus help reduce CO₂ emissions by improving their driving habits. JAMA has therefore been conducting an ongoing public-awareness campaign, in collaboration with the government and industry partners, to promote sound, fuel-conserving ecodriving practices, urging drivers to adopt the ten smart tips listed below. While the already widespread use of digital tachographs in truck fleet operations in Japan continues to expand, automakers are equipping more and more passenger cars not only with fuel efficiency gauges and systems for real-time on-screen displays of fuel efficiency performance, but also with idling-prevention (stopstart) systems and "eco-mode" buttons that activate fuel efficiency-promoting functions.

TEN TIPS FOR FUEL-CONSERVING ECODRIVING as promoted in Japan



1. Accelerate gently.

"eco-start" when accelerate—increasing your speed at a relaxed pace, to 20km/h in 5 seconds, boosts fuel efficiency by 10%. Gentle acceleration also contributes to safer driving.



2. Maintain a steady speed and keep your distance.

Maintain a suitably steady speed for safe and fuel-efficient driving. Tailgating leads to acceleration/deceleration, unnecessary resulting in 2% and 6% lower fuel efficiency in urban and suburban areas, respectively.



3. Slow down by releasing the accelerator.

Releasing the accelerator when recognizing the need to slow down (e.g., at changing traffic lights) stops the fuel supply, resulting in a 2% gain in fuel efficiency. Use your engine's braking function whenever appropriate, including on downhill descents.



4. Make appropriate use of your air conditioner.

The AC function is for cooling and dehumidifying only, so don't leave your AC on when you're heating the cabin. When you do use it, be sure not to set it too low. (Continuous use of the AC functioning at 25°C when the outdoor temperature is 25°C results in a fuel efficiency loss of 12%.)



5. Don't warm up or idle your engine.

Today's passenger cars don't require warming up, so start off slowly right after turning on the ignition. When waiting or loading/unloading, make a habit of turning your engine off instead of letting it idle. Ten minutes of engine idling (with the AC off) wastes 130cc of fuel. (See notes below.)



6. Plan your itinerary to avoid congested routes.

Plan the route to your destination using a map or your navigation system before starting off. Check traffic information to avoid congested areas and save time and fuel. Ten minutes of unnecessary driving in a one-hour trip results in a 17% drop in fuel efficiency.



7. Check your tire pressure regularly.

Driving on tires whose air pressure is 50kPa (0.5kg/cm²) lower than it should be decreases fuel efficiency by 2% in urban areas and 4% in suburban areas. Timely replacement of engine oil and items such as oil filters and air cleaner elements also contributes to increased fuel efficiency.



8. Reduce your load.

Onboard weight is a key factor in fuel efficiency performance. Driving with 100kg of unnecessary onboard weight causes a 3% loss in fuel efficiency. Another factor is your vehicle's aerodynamic drag, which you can reduce by removing exterior rack equipment when not in use



9. Respect parking rules and regulations.

Don't leave your vehicle where it blocks traffic. Illegal or imprudent on-street parking causes traffic congestion which leads to increased emissions and a greater risk of accident. Roads that are not encumbered by illegally or improperly parked vehicles promote smoother traffic flow and higher fuel efficiency.



10. Check the readings on your fuel efficiency-monitoring equipment.

Be aware of your vehicle's fuel efficiency performance onboard by consulting equipment that monitors it.

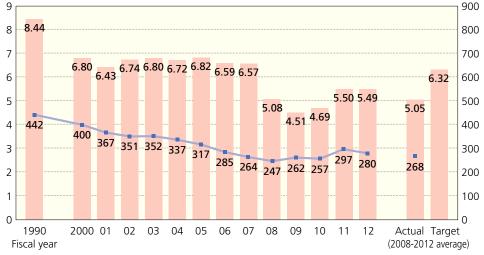
Notes: 1. Warming up a vehicle engine is necessary only in extremely cold climates (-20°C or colder) or after long periods of non-use. 2. For drivers stopping engine idling manually, i.e. by turning their vehicle's ignition off and then back on again, caution is advised as follows (but does not apply to drivers of vehicles equipped with idling-prevention systems): 1) Stepping on the brake pedal repeatedly during engine shut-down may diminish braking power; 2) Drivers not accustomed to shutting down their engines and starting them up again may experience slow or faulty restarts; 3) Excessive shutting down and restarting may drain the batteries, resulting in engine start-up failure; 4) Do not use this method when stopped at the head of a line or on a gradient, because turn signals and windshield wipers, as well as airbags and other safety features, will not function during engine shut-down.

CO₂ Reductions at Manufacturers' Facilities

Japan's automakers, together with the member companies of the Japan Auto-Body Industries Association (JABIA) since 2008, have taken measures to reduce energy consumption and otherwise cut CO₂ emissions at their production facilities. As a result, between 2008 and 2012, the annual average for plant-emitted CO₂ was 5.05 million tons, surpassing the target of 6.32 million tons. Expanding their voluntary CO₂ reduction activities to also include administrative and research facilities, JAMA and JABIA now aim to reduce their combined facility-emitted CO₂ to 7.09 million tons by 2020, representing a 28% decrease from the volume of those emissions in 1990.

● PRODUCTION PLANT-GENERATED CO₂ EMISSION VOLUMES, 1990-2012





Source: Japan Automobile Manufacturers Association

CO₂ emissions/

(x 1,000 tons CO2

per 1 trillion yen)

production value

Automobiles and Society

Attention to the Environment ② Hazardous Substances

Voluntary Initiatives to Reduce the Use of Hazardous Substances in Motor Vehicles

JAMA member manufacturers have, on a voluntary basis, eliminated the use of four so-called substances of concern (SOCs)—lead, mercury, hexavalent chromium and cadmium—in new vehicles to lessen their environmental impact, particularly when they are dismantled and processed at the end of their service life. Separate restrictions on the use of SOCs have been established for motorcycles.

RESTRICTIONS ON THE USE OF SUBSTANCES OF CONCERN IN NEW VEHICLES & COMPLIANCE STATUS

soc	Restrictions	Compliance Status
Lead	As of January 2006, a 90% decrease or more from the 1996 level of 1,850 grams (i.e., a maximum permissible level of 185 grams); for large commercial vehicles including buses, a 75% decrease or more from the 1996 level (or a maximum level of 462.5 grams). Batteries are exempt.	All models have complied since January 2006.
Mercury	As of January 2005, banned except for trace amounts in safety-related components such as: - Instrument panel displays - Liquid crystal displays in navigation devices - Discharge lamps - Fluorescent cabin lamps	All models have complied since January 2003. Instrument panel displays are now mercury-free in all models, as are fluorescent cabin lamps in passenger cars. Navigation-device liquid crystal displays and discharge lamps will be mercury-free in the near future.
Hexavalent chromium	Banned as of January 2008.	All models have complied since January 2008. (Erroneous use in 2010 in a large commercial vehicle model was promptly discontinued.)
Cadmium	Banned as of January 2007.	All models have complied since January 2006.

A Voluntary Approach to Reducing Vehicle Cabin VOCs

New-model passenger cars marketed in and after 2007 and new-model commercial vehicles sold in and after 2008 have met the target values established by Japan's Ministry of Health, Labor and Welfare for indoor concentration levels of 13 volatile organic compounds (VOCs). In July 2012, ISO 12219-1 was established as the global standard for restricting the use of in-cabin VOCs in passenger cars. Accordingly, JAMA's previously established VOC test procedure for passenger cars will be replaced by the ISO procedure. However, for trucks and buses not covered by the ISO standard, JAMA test methods for measuring in-cabin VOC concentration levels will remain in application. Automakers will work to lower in-cabin VOC concentration levels even further in future. This voluntary initiative applies only to vehicles that are manufactured and sold in Japan.

COMPARISON OF JAMA AND NEW ISO IN-CABIN VOC TEST PROCEDURES (for passenger cars)

	JAMA Procedure	ISO Procedure		
Heating method	Radiation lamp heating from above the cabin (No radiation density prescribed.)	Radiation lamp heating from above the cabin (Radiation density: 400±50 W/m²)		
In-cabin temperature	40°C in driver's breathing zone	No in-cabin test temperature prescribed. (Presumed to be 40°C in driver's breathing zone [compact car].)		
Pre-test conditions	Cabin doors and windows left open for at least 30 minutes.	Cabin doors and windows left open for one hour.		
Ambient mode	_	Cabin doors and windows closed for at least 7.5 hours, then cabin air sample-tested over a period of 30 minutes.		
Parking mode (airtight state)	Cabin air sample-tested over a period of 30 minutes, 4.5 hours after reaching the prescribed temperature.	Cabin air sample-tested over a period of 30 minutes, 3.5 hours after start of heating.		
Driving mode	Cabin air sample-tested over a period of 15 minutes, with engine and AC on (internal air circulation mode).	Cabin air sample tested over a period of 30 minutes, with engine and AC on (external air ventilation mode).		
Test procedure schematic	Lamp heating 4.5h A.5h Parking mode Driving mode B.G. B.G.	Samp heating Ramp heating B.G.: "Background" air, i.e., air in test chamber.		

Source: ISO 12219-1:2012

TARGET VALUES FOR INDOOR CONCENTRATION LEVELS OF 13 SUBSTANCES (VOCs)

Substance	Target Value for Indoor Concentration Level	Principal Sources			
Formaldehyde	100 μ g/m ³ (0.08 ppm)	Adhesives for plywood, wallpaper, etc.			
Toluene	260 μ g/m³ (0.07 ppm)	Adhesives/paints for interior finishing materials, furniture, etc.			
Xylene	870 μ g/m³ (0.20 ppm)	Adhesives/paints for interior finishing materials, furniture, etc.			
Paradichlorobenzene	240 μ g/m ³ (0.04 ppm)	Moth repellents, lavatory air fresheners			
Ethylbenzene	3,800 μ g/m ³ (0.88 ppm)	Adhesives/paints for plywood, furniture, etc.			
Styrene	220 μ g/m ³ (0.05 ppm)	Insulation materials, bath units, tatami-mat core materials			
Chlorpyrifos	1 μ g/m ³ (0.07 ppb) (see note)	Insecticides (esp. ant exterminators)			
Di-n-butyl phthalate	220 μ g/m ³ (0.02 ppm)	Paints, pigments, adhesives			
Tetradecane	330 μ g/m ³ (0.04 ppm)	Kerosene, paints			
Di-2-ethylhexyl phthalate	120 μ g/m ³ (7.6 ppb)	Wallpaper, flooring materials, wire-coating materials			
Diazinon	$0.29 \ \mu g/m^3 \ (0.02 \ ppb)$	Pesticides			
Acetaldehyde	48 μ g/m ³ (0.03 ppm)	Adhesives for construction materials, wallpaper, etc.			
Fenobucarb	33 μ g/m ³ (3.8 ppb)	Insecticides (esp. termite exterminators)			

Note: $0.1 \mu g/m^3$ (0.007 ppb) for children.

Vehicle Exhaust Emissions: New Regulations Enforced in 2009

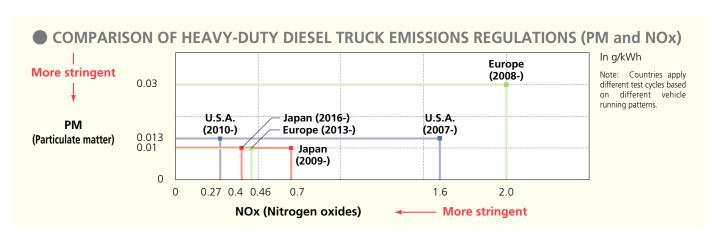
Japan's vehicle exhaust emissions regulations have always been among the strictest in the world, and its automakers have worked very hard to develop the advanced technologies required to comply with them. As a result, NOx and other atmospheric pollutant levels have been on a steady decline even in large urban areas. Based on the Ministry of the Environment-affiliated Central Environment Council's policy recommendations for future reductions in motor vehicle exhaust emissions (released in April 2005), comprehensive new regulations were implemented by the Japanese government in 2009, of which the regulations for trucks and buses were, at the time of their enforcement, the most stringent in the world. Starting in 2016, the NOx regulation for heavy-duty diesel vehicles will be even stricter, as will be the NOx, THC and CO emission limit values for motorcycles.

COMPARISON OF HEAVY-DUTY DIESEL TRUCK EMISSIONS REGULATIONS

All regulatory values below apply to the heaviest truck categories. In α/kWh

		NOx Nitrogen oxides	THC Total hydrocarbons	NMHC Non-methane hydrocarbons	CO Carbon monoxide	PM Particulate matter
lapan (GVW=Over 3.5	5 tons) (1)					
Long-term regulation	ons (1997, 1998, 1999)	4.50	2.90	_	7.40	0.25
New short-term reg	ulations (2003, 2004)	3.38	0.87	_	2.22	0.18
New long-term regu	ulations (2005) (2)	2.0	_	0.17	2.22	0.027
Post-new long-term	regulations (2009, 2010)	0.7	_	0.17	2.22	0.01
Future regulations (2016, 2017, 2018)	0.4	_	0.17	2.22	0.01
J.S.A. (GVW=Over 3.8	35 tons)					
1998 standard	1998 standard		1.74	_	20.78	0.134
2004 standard		1) NOx + NMHC 3.22	urers must comply with	20.78	0.134	
2007 standard (3)		0.27 (1.6)		0.188	20.78	0.013
2010 standard		0.27	_	0.188	20.78	0.013
Europe (GVW=Over 3	.5 tons)					
EURO II (1995)		7.0	1.1	_	4.0	0.15
EURO III (2000) (4)	Transient mode	5.0	_	0.78	5.45	0.16
	Steady state mode	(5.0)	(0.66)	_	(2.1)	(0.10)
EURO IV (2005)	Transient mode	3.5	_	0.55	4.0	0.03
	Steady state mode	(3.5)	(0.46)	<u>-</u>	(1.5)	(0.02)
EURO V (2008)	Transient mode	2.0	_	0.55	4.0	0.03
	Steady state mode	(2.0)	(0.46)	_	(1.5)	(0.02)
EURO VI (2013)	Transient mode	0.46	0.16	_	4.0	0.01
	Steady state mode	(0.4)	(0.13)	_	(1.5)	(0.01)
EEV (5)	Transient mode	2.0	_	0.40	3.0	0.02
	Steady state mode	(2.0)	(0.25)	_	(1.5)	(0.02)

(1) GVW (gross vehicle weight) (Japan) = Vehicle weight + Maximum load + Maximum occupants x 55 kg. Weight per occupant and other details slightly differ from those of U.S. and European regulations. (2) Japan's 1997-2004 regulations applied to the over-2.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category; regulations as of 2005 apply to the ove (ESC) mode only, except DPF- and NOx reduction catalyst-equipped vehicles, which were regulated in both the steady state (ESC) and transient (ETC) modes. Beginning with EURO IV, all vehicle categories, whether DPF- and NOx reduction catalyst-equipped or not, are regulated in both modes. (5) EEV (Europe): Enhanced Environmentally Friendly Vehicles. EEV regulations constitute a special category and are applied by EU member countries only in specific instances when urban air quality is particularly poor (for example, when temporary restrictions on vehicle circulation in cities are enforced). Emission values indicated are provisional



MOTOR VEHICLE EMISSIONS REGULATIONS IN JAPAN

			Previous Regulations				Curren	t/Future	Regulati	ons
	Vehicle	е Туре	Test cycle	Year enforced	Emission	Regulatory value (Average)	Test cycle	Year enforced	Emission	Regulatory value (Average)
Gasoline and LPG Vehicles	Passenger cars		10•15-mode + 11-mode (g/km) (1)	2005	CO NMHC NOx	1.15 0.05 0.05	JC08 (g/km) (1)	2009	CO NMHC NOx	1.15 0.05 0.05
			10.15	2007	60	4.00	JC08 (g/km)	2009	PM (2)	0.005
	Trucks	Mini	10•15-mode	2007	CO	4.02	JC08 (g/km) (1)	2009	CO	4.02
	and		+ 11-mode		NMHC	0.05			NMHC NOx	0.05
	buses		(g/km) (1)		NOx	0.05	JC08 (g/km)	2009	PM (2)	0.05 0.005
		Light-duty	10•15-mode	2005	CO	1.15	JC08 (g/km) (1)	2009	CO CO	1.15
		(GVW≤1.7t)	+ 11-mode	2003	NMHC	0.05	JC08 (g/Kill) (1)	2009	NMHC	0.05
		(0 0 00 21.7 t)	(g/km) (1)		NOx	0.05			NOx	0.05
			(9/111) (1)		INOX	0.05	JC08 (g/km)	2009	PM (2)	0.005
		Medium-duty	10•15-mode	2005	СО	2.55	JC08 (g/km) (1)	2009	CO	2.55
		(1.7t <gvw≤3.5t)< td=""><td>+ 11-mode</td><td>NMHC</td><td>0.05</td><td> Jees (g// (./</td><td>2003</td><td>NMHC</td><td>0.05</td></gvw≤3.5t)<>	+ 11-mode		NMHC	0.05	Jees (g// (./	2003	NMHC	0.05
		(1.7 (\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(g/km) (1)		NOx	0.07			NOx	0.07
			(9)				JC08 (g/km)	2009	PM (2)	0.007
		Heavy-duty	JE05 (g/kWh)	2005	CO	16.0	JE05 (g/kWh)	2009	CO	16.0
		(GVW>3.5t)	.5 .		NMHC	0.23			NMHC	0.23
					NOx	0.7			NOx	0.7
									PM (2)	0.01
Diesel	Passenger cars (3)		10 • 15 - mode	2005	СО	0.63	JC08 (g/km)	2009	CO	0.63
Vehicles		-	+ 11-mode		NMHC	0.024			NMHC	0.024
			(g/km)		NOx Small-sized	0.14			NOx	0.08
					iviia-sizea	0.15				
					PM Small-sized Mid-sized	0.013 0.014			PM	0.005
	Trucks	Light-duty	10 • 15 - mode	2005	CO	0.63	JC08 (g/km)	2009	CO	0.63
	and	(GVW≤1.7t)	+ 11-mode		NMHC	0.024			NMHC	0.024
	buses		(g/km)		NOx	0.14			NOx	0.08
					PM	0.013			PM	0.005
		Medium-duty	10 • 15 - mode	2005	CO	0.63	JC08 (g/km)	2009 (4)	CO	0.63
		(1.7t <gvw≤3.5t)< td=""><td>+ 11-mode</td><td></td><td>NMHC</td><td>0.024</td><td></td><td></td><td>NMHC</td><td>0.024</td></gvw≤3.5t)<>	+ 11-mode		NMHC	0.024			NMHC	0.024
			(g/km)		NOx PM	0.25 0.015			NOx PM	0.15 0.007
		Heavy-duty	JE05 (g/kWh)	2005	CO	2.22	JE05 (g/kWh)	2009 (4)	CO	2.22
		(GVW>3.5t)		2003	NMHC	0.17		2003 (4)	NMHC	0.17
		(4 1 1 1 2 3 . 3 . 7			NOx	2.0			NOx	0.7
					PM	0.027			PM	0.01
					1		WHTC (g/kWh)	2016 (5)	CO	2.22
							(5)	, ,	NMHC	0.17
									NOx (6)	0.4
									PM	0.01
Motor-	Motor-	driven cycles	Motorcycle test	2006	CO	2.0	WMTC (g/km)	2010	CO	2.2
cycles	Class 1		cycle (g/km)		HC	0.5	(7)		THC	0.45
				2007	NOx	0.15) A (D 4T-C / / /)	2010	NOx	0.16
		driven cycles	Motorcycle test	2007	CO	2.0	WMTC (g/km)	2010	CO	2.2
	Class 2		cycle (g/km)		HC NOx	0.5 0.15	(7)		THC NOx	0.45 0.16
	Mini-si:	d	Motorcycle test	2006	CO	2.0	WMTC (g/km)	2010	CO	2.62
	motorc		cycle (g/km)	2000	HC	0.3	(7)	2010	THC	0.27
	motorc	ycies	cycle (g/)		NOx	0.15	()		NOx	0.21
	Small-s	ized	Motorcycle test	2007	CO	2.0	WMTC (g/km)	2010	CO	2.62
	motorc		cycle (g/km)		HC	0.3	(7)		THC	0.27
		,	, .5		NOx	0.15			NOx	0.21
	Class I	motorcycles*	Under 0.150 ℓ i	Under 0.150 ℓ in engine capacity with a maximum speed of 50km/h, or under 0.150 ℓ in engine capacity with a				2016	СО	1.14
			maximum speed			acity Willi d	(7)		THC	0.30
			*Equivalent to mot	or-driven cyc	les, Class 1 and Class 2.		NA (D. 4T.C. /	2015	NOx	0.07
(Class I	motorcycles*	Under 0.150ℓ i	n engine d	apacity with a maxi	mum speed	WMTC (g/km)	2016	СО	1.14
	class I motorcycles				ℓ or over in engi	ne capacity	(7)		THC	0.20
			with a maximum speed of <130km/h.							
				*Equivalent to mini-sized and small-sized motorcycles with a maximum speed of <130km/h.					NOv	0.07
	Cl- T	I 4	*Equivalent to mini-sized	d and small-sized		peed of <130km/h.	MATC (allen)	2016	NOx	0.07
	Class II	I motorcycles*	*Equivalent to mini-sized With a maximum	d and small-sized m speed of			WMTC (g/km)	2016	NOx CO THC	0.07 1.14 0.17

⁽¹⁾ All vehicles weighing 3.5t or less are regulated as follows: Beginning in 2008, on the basis of (values measured in cold-start state in JC08 test cycle) x 0.25 + (values measured in 2011, on the basis of (values measured in cold-start state in JC08 test cycle) x 0.25 + (values measured in 2011, on the basis of (values measured in 2011, on the basis of values measured in 2011, on the 2011 Note: CO: carbon monoxide; NMHC: non-methane hydrocarbons; THC: total hydrocarbons; NOx: nitrogen oxides; PM: particulate matter.

Sources: Ministry of the Environment; Ministry of Land, Infrastructure, Transport and Tourism



Improving Air Quality

Japan's central government as well as local governments in major metropolitan areas have implemented measures to address air quality problems caused by motor vehicles. In accordance with national legislation aimed at curbing nitrogen oxide (NOx) and particulate matter (PM) emissions, the issuance of inspection-compliance certification is prohibited for vehicles that fail to meet the legal standards at inspection time. Moreover, local governments in major metropolitan areas have introduced additional regulations for diesel trucks and buses for the specific purpose of reducing PM emissions. Enforcement of those regulations means that restrictions are imposed on diesel vehicle circulation in the areas concerned.

PROVISIONS OF THE NATIONAL AUTOMOTIVE NOx AND PM LAW/ DIESEL TRUCK & BUS PM EMISSION REGULATIONS FOR MAJOR METROPOLITAN AREAS

	Provisions of the National Automotive NOx and PM Law (Major Metropolitan Areas)	Provisions of PM Emission Regulations for Diesel Vehicles (Major Metropolitan Areas)
Areas Regulated	Tokyo and Aichi, Chiba, Hyogo, Kanagawa, Mie, Osaka, and Saitama (designated areas)	Tokyo (except for islands) and Chiba, Kanagawa, and Saitama (all areas); Hyogo (designated areas); Osaka (same areas as those designated under the Automotive NOx & PM Law)
Vehicle Types Regulated	Diesel, gasoline, and LPG trucks and buses Diesel passenger cars	Diesel trucks and buses Note: Not applicable to diesel passenger vehicles with up to 10-passenger occupancy.
Substances Regulated	NOx and PM	PM only NOx and PM in Hyogo and Osaka
Regulatory Values in Force	Trucks and Buses GVW = Gross vehicle weight GVW=1.7 tons & under: NOx: 0.48g/km (same as 1988 regulatory value for new gasoline vehicles) PM: 0.055g/km (half the 2002 regulatory value for new diesel vehicles) GVW=Over 1.7 tons to 2.5 tons: NOx: 0.63g/km (same as 1994 regulatory value for new gasoline vehicles) PM: 0.06g/km (half the 2003 regulatory value for new diesel vehicles) GVW=Over 2.5 tons to 3.5 tons: NOx: 5.9g/kWh (same as 1995 regulatory value for new gasoline vehicles) PM: 0.175g/kWh (half the 2003 regulatory value for new diesel vehicles) GVW=Over 3.5 tons: NOx: 5.9g/kWh (same as 1998-1999 regulatory value for new diesel vehicles) PM: 0.49g/kWh (same as 1998-1999 regulatory value for new diesel vehicles) Passenger Cars NOx: 0.48g/km (same as 1978 regulatory value for new gasoline vehicles) PM: 0.055g/km (half the 2002 regulatory value for new diesel vehicles)	In Chiba and Kanagawa, same as 1997, 1998, and 1999 regulatory values for new diesel trucks and buses In Tokyo and in Saitama, same as 2002, 2003, and 2004 regulatory values for new diesel trucks and buses In Hyogo and Osaka, same values as those mandated by the Automotive NOx & PM Law
Specific Provisions	New Vehicles In regulated areas, new vehicles not meeting the standards cannot be registered. Vehicles in Use Regulated vehicles whose principal places of use (as declared in their inspection certificates) fall in regulated areas and that do not meet the standards will not be granted inspection certification after grace periods have expired. Note: Vehicles whose principal places of use (as declared in their inspection certificates) do not fall in regulated areas can travel through regulated areas even if they do not meet the standards.	New Vehicles No restriction. Vehicles in Use Vehicles not meeting the standards are prohibited from travelling through regulated areas after grace periods have expired. In Osaka, vehicles not meeting the standards are prohibited from travelling on roads directly accessing regulated areas. In Tokyo and in Chiba, Kanagawa, and Saitama, vehicles equipped with local government-specified PM reduction systems are deemed to be in compliance with the standards. Note: Applicable to diesel trucks and buses registered anywhere in Japan and travelling through regulated areas.
Grace Periods	From first registration: Small trucks Diesel passenger cars Standard trucks Minibuses 10 years etc. Large buses 12 years etc.	Seven years from first registration, regardless of vehicle type (truck or bus) Note: In Chiba, vehicles neither registered in nor travelling through areas designated under the Automotive NOx & PM Law will be exempted for a period of 12 years, provided vehicle owners apply for such an exemption. In Hyogo, grace periods differ according to year of first registration and vehicle type. In Osaka, grace periods are the same as those specified in the Automotive NOx & PM Law.

Promoting Vehicles with Greater Fuel Efficiency and Lower Emissions

Vehicles with greater fuel efficiency help counter global warming through their reduced emission of CO2, while vehicles with reduced tailpipe emissions help improve air quality. For gasoline, diesel, and LPG vehicles, the Japanese government has established environmental performance certification criteria keyed to Japan's latest fuel efficiency and emission standards. Trucks and buses that comply with NOx (nitrogen oxides) and PM (particulate matter) emissions requirements are also certified, separately. To boost widespread public awareness of vehicles with advanced fuel efficiency and/or low emissions, such vehicles are identified with appropriately coded stickers.

CERTIFICATION FOR VEHICLES WITH ADVANCED FUEL EFFICIENCY

For Gasoline and Diesel Vehicles Including Trucks and Buses with GVW≤2.5t

Rating/Performance Level		Vehicle Sticker
Compliant +20% compared to standards	Performing at least 20% better compared to 2015 fuel efficiency standards	等是李十 <mark>20%这成年</mark>
Compliant +10% compared to standards	Performing at least 10% better compared to 2015 fuel efficiency standards	现在27年基 题費基準 计 0%達成車
Compliant with standards	Compliant with 2015 fuel efficiency standards	您費基準達成車

Note: Fuel efficiency is JC08 test cycle-based.

For Trucks and Buses with GVW>2.5t

Rating/Performance Level		Vehicle Sticker
Compliant +10% compared to standards	Performing at least 10% better compared to 2015 fuel efficiency standards	型是27年的 整費基準代 <mark>0%達成車</mark>
Compliant +5% compared to standards	Performing at least 5% better compared to 2015 fuel efficiency standards	^{集局 27年版} 然費基準 45% 達成車
Compliant with standards	Compliant with 2015 fuel efficiency standards	^{東國27年度} 慈費基準達成車

Note: Fuel efficiency is JC08 or JE05 test cycle-based.

For Gasoline and LPG Vehicles Including Gasoline Trucks with GVW≤2.5t

Rating/Performance Level		Vehicle Sticker
Compliant +50% compared to standards	Performing at least 50% better compared to 2010 fuel efficiency standards	與歷224年末 無費基準 (150%達成車
Compliant +38% compared to standards	mpared to better compared to 2010	
Compliant +25% compared to standards	Performing at least 25% better compared to 2010 fuel efficiency standards	^{李國22年度} 整費基準 <mark>+25%</mark> 這或事

Note: Fuel efficiency is 10.15-mode test cycle-based.

CERTIFICATION FOR VEHICLES WITH LOW EMISSIONS

Rating/Performance Level		Vehicle Sticker
*	Emissions down by 10% from 2009 standards	低排出ガス車 取役21年地ガス第9100位数 第七分系元数2第
***	Emissions down by 75% from 2005 standards	使排出ガス車 9417年 同北江ス章 75 年15年 第17年 日本北京ス章 75 年15年
***	Emissions down by 50% from 2005 standards	佐排出ガス車 9417年 第2172年 号が東海 第152年 日本

CERTIFICATION FOR TRUCKS AND BUSES WITH LOW NOX & PM EMISSIONS

Rating/Performance Level	Vehicle Sticker
Compliant with 2009 emission standards	適合車
Compliant with 2005 emission standards	適合軍
Compliant with other certification criteria (see above)	適合車

Vehicle Recycling and Waste Reduction

Under Japan's End-of-Life Vehicle (ELV) Recycling Law which entered into force in January 2005, automobile manufacturers and importers are responsible for recovery, recycling and appropriate disposal with respect to fluorocarbons, airbags, and automobile shredder residue (ASR). Compliance with the law was anticipated to enable ASR to be recycled at a rate of 70% by 2015, resulting in an automobile recycling rate, by vehicle weight, of 95% (as compared with the 80% rate prevailing prior to the introduction of the law); those rates were in fact surpassed in 2008. Japan's vehicle recycling infrastructure as mandated by its ELV Recycling Law is the first in the world to administer the entire process of auto recycling—from ELV recovery to final disposal—on the basis of electronic "manifests" (or compliance checklists). JAMA itself played a central role in the development and implementation of this advanced vehicle recycling system. It also provided financial support for related software development and continues to help finance system maintenance and upgrades. In line with national efforts to "reduce, reuse, recycle," Japan's automakers are also striving to design vehicles using lightweight materials that are easy to dismantle and recycle, and to reduce and recycle waste generated in the manufacturing process. In 2012 the volume of auto plant-generated waste destined for landfill disposal totalled 600 tons, a 99.8% decrease from the 1990 level, very largely surpassing the 2015 target of 10,000 tons.

INDUSTRY MEASURES IN LINE WITH NATIONAL LEGISLATION

	Promotion of Effective Utilization of Resources Law (the "3-R" Law)			End-of-Life Vehicle Recycling Law
	Product Design	Waste Management		ELV Recycling
"Reduce" initiatives	For designated products: - Weight reduction/ Downsizing - Longer product life - Reduced use of hazardous substances	For designated areas of activity: - Reduction/recycling of designated waste products generated in vehicle manufacturing operations: 1) Scrap metals 2) Casting sand residue	g and Use	
"Reuse" initiatives	For designated products: - Use of recyclable materials		Distribution, Servicing	- Recovery and recycling of: 1) Fluorocarbons 2) Airbags 3) ASR Note: Motorcycles are not covered by the ELV Recycling Law.
"Recycle" initiatives	- Ease of dismantling - Ease of sorting - Non-hazardous recycling - Materials identification	- Total waste volume*: 1990 (baseline): 352,000 tons 2012: 600 tons (a 99.8% reduction from 1990) JAMA target: 10,000 tons by fiscal 2015 *For landfill disposal, including scrap metals, casting sand residue, and other waste	Dist	the ELV Recycling LaW.

ELV RECOVERY IN NUMBERS

In vehicle units

Fiscal Year		2012	2013
No. of ELVs recovered		3,405,662	3,433,356
Appropriate disposal of	Fluorocarbons	2,816,486	2,911,189
3 designated items	Airbags (1)	2,157,945	2,273,857
	ASR (2)	3,391,787	3,391,740

⁽¹⁾ Through recovery/appropriate disposal of inflators or through onboard deactivation. (2) Covers all categories of processors, whether for direct disposal or for transfer to other markets.

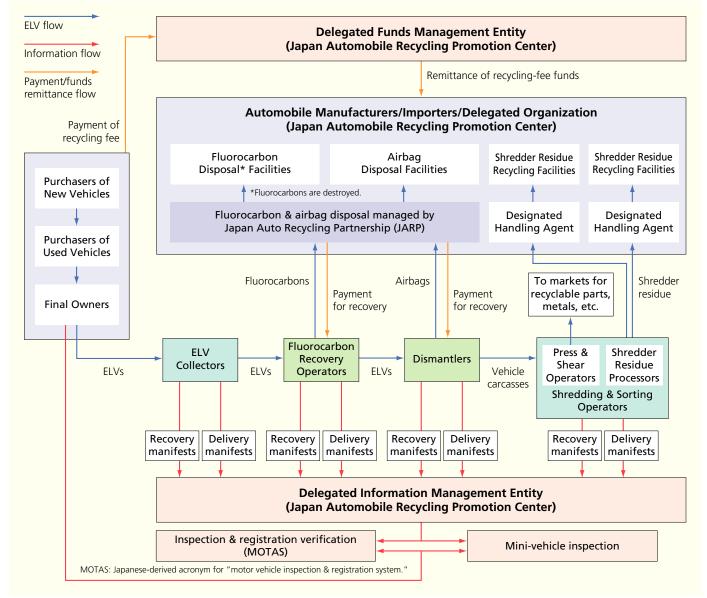
Source: Japan Automobile Recycling Promotion Center

RECYCLING RATES: TARGETED & ACHIEVED

Three Designated Items	Target	Achieved
Fluorocarbons	Destruction	2.158 million vehicle units (2012)
Airbags	85%	93-95% (2012)
ASR	2005: 30% 2010: 50% 2015: 70%	93-96.8% (2012)

Sources: Government-affiliated entities

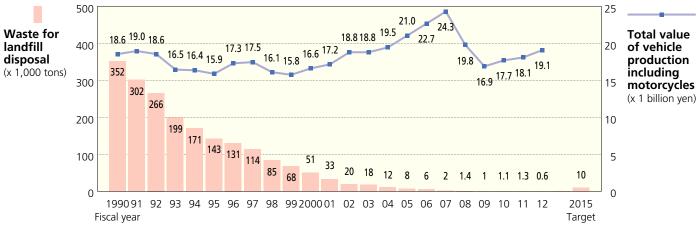
■ THE ELV RECYCLING FLOW (as per the provisions of the End-of-Life Vehicle Recycling Law)



Note: The Japan Automobile Recycling Promotion Center assumes the same responsibilities as automobile manufacturers and importers when an ELV has no manufacturer representation under the provisions of this law. It also assumes transport-to-mainland costs for ELVs turned in on Japan's smallest islands.

REDUCTIONS IN PRODUCTION PLANT-GENERATED WASTE

As a result of the efforts made by Japan's automobile manufacturers, the total volume of auto plant-generated waste destined for landfill has decreased dramatically. It surpassed the 2015 target of 10,000 tons for the first time in 2005, shrinking more than 97% from the 1990 baseline level to 8,000 tons. In 2012 plant-generated waste totalled 600 tons, marking not only a large decrease from the previous year, but also a 99.8% reduction from the 1990 level—and thus very significantly surpassing the 2015 target.

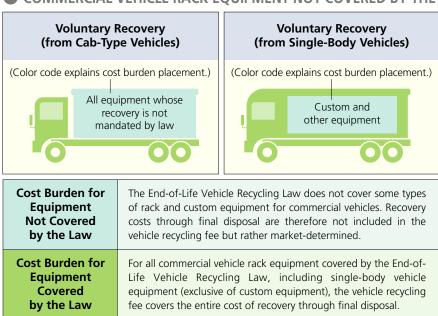


Source: Japan Automobile Manufacturers Association

Voluntary Initiatives to Recycle Commercial Vehicle Rack Equipment and Motorcycles

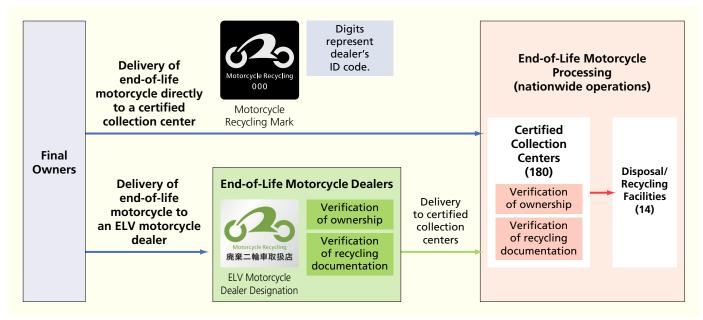
Japan's End-of-Life Vehicle Recycling Law does not cover some types of commercial vehicle rack and custom equipment, nor does it cover motorcycles. In response, JAMA, in cooperation with the Japan Auto-Body Industries Association, promotes the development and use of rack equipment that is easy to dismantle and contains minimal amounts of hazardous substances. JAMA has also introduced a recycling-and-disposal system for such equipment. As of January 2014, a total of 163 operators across Japan are participating in the system voluntarily. Since October 2004, JAMA's four motorcycle-manufacturing members, along with 12 motorcycle importers, have been voluntarily operating a recycling system under which motorcycle dealers nationwide sell only vehicles that feature an official motorcycle recycling mark, enabling, without any additional charge to their final owners, their recovery and processing through the proper disposal channels at the end of their service life. In October 2011, the motorcycle recycling fee was eliminated for vehicles sold prior to the introduction of the motorcycle recycling system seven years earlier. Municipally-owned motorcycles require a pre-approval by the Japan Automobile Recycling Promotion Center prior to their appropriate disposal.

COMMERCIAL VEHICLE RACK EQUIPMENT NOT COVERED BY THE END-OF-LIFE VEHICLE RECYCLING LAW



Vehicles Not Covered by the End-of-Life Vehicle Recycling Law		
Van-type CVs such as: Freezer trucks/vans, refrigerator trucks/vans, dry vans, etc.		
Tank-type CVs such as:	Tank trucks, cement mixers, waterspraying trucks, water-supply trucks, sewage removal trucks, etc.	
Hauling CVs such as:	Specialized hauling trucks, vehicle carriers, container trucks, lift-equipped vehicles, etc.	
Special- purpose CVs such as:	Special all-terrain vehicles, fire trucks, wreckers, pump trucks, ladder-equipped vehicles, etc.	

THE MOTORCYCLE RECYCLING FLOW

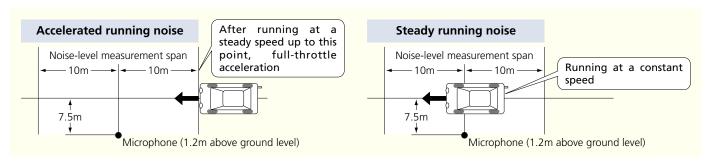


Note: The cost of ELV motorcycle delivery from ELV dealers to certified collection centers is financed by the motorcycle manufacturers on the basis of the consumer's recycling fee paid at the time of motorcycle purchase Source: Japan Automobile Recycling Promotion Center

Reducing Automobile-Emitted Noise

Automobiles generate various kinds of noise, including the noise emitted by the engine, intake system, powertrain, and cooling and exhaust systems. Tires also generate tire/road noise. Automotive noise in Japan is regulated by standards—on accelerated running noise, steady running noise, and stationary exhaust proximity noise—which have become progressively more stringent, requiring automakers to develop the technologies necessary for compliance. As regards the noise intentionally emitted through tampered mufflers, which has been recognized as a public nuisance, strengthened regulations in effect since April 2010 mandate a) that mufflers be tamper-resistant so as to prevent the alteration of their noise-suppression mechanism, and b) that replacement mufflers not only meet Japan's relevant noise standards through type approval compliance but also be ID-marked accordingly. Although very significant progress has been made as a result of all of these efforts, the Japanese government's Central Environment Council is nevertheless working on the updating of noise regulations in line with the results of studies conducted under the United Nations' World Forum for Harmonization of Vehicle Regulations (WP.29). Accordingly, in its "New Measures for Reducing Automobile-Emitted Noise" released in April 2012, the government announced its intention to introduce, beginning in 2014, UN R41-04, the new international standard on motorcycle acceleration noise, as well as UN R117-02, to regulate tire noise generated by passenger cars, trucks and buses. Meanwhile, the Forum's Working Party on Noise continues to discuss the guietness of electric vehicles and hybrid vehicles running at low speed, with a view to creating a global technical standard in this regard.

PROCEDURES FOR TESTING MOTOR VEHICLE NOISE LEVELS



OVERVIEW OF JAPAN'S MOTOR VEHICLE NOISE REGULATIONS (for accelerated running noise) In dB(A)

	Passeng	er Cars, Trucks and Buse	s				
	Wahiala Toma			ı	Regulation	1	
	Vehicle Type		1971	1976-1977	1979	1982-1987	1998-2001
Large-sized vehicles	Vehicles with GVW>3.5 tons and maximum engine output>150 kW	4WD vehicles, etc. Trucks Buses	92	89	86	83	82 81
Medium-sized vehicles	Vehicles with GVW>3.5 tons and maximum engine output≤150 kW	4WD vehicles, etc. Trucks Buses	89	87	86	83	81 80
Small-sized vehicles	Vehicles with GVW≤3.5 tons	Other than mini-vehicles Mini-vehicles	85	83	81	78	76
Passenger cars	Vehicles exclusively for the transport of passengers, with up to 10-passenger occupancy	L	84	82	81	78	76

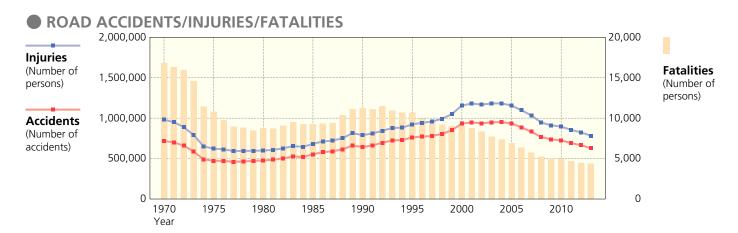
Notes: 1. In pre-1987 regulations, "150 kW" reads "200 horsepower." 2. "4WD vehicles, etc." includes 4WDs, tractors, and cranes.

		Motorcycles						
	Vehicle Type							
	venicie Type		1971	1976-1977	1979	1982-1987	1998-2001	2014-
Small-sized motorcycles	Over 250cc	86	83	78	75	73		
Mini-sized motorcycles	126cc-250cc		84	05	70	/5	/3	
Class Ⅲ (see note)		Mini-sized and small-sized motorcycles under the current classification						77
Motor-driven cycles Class 2	51cc-125cc		82	79	75	72	71	
Class II (see note)		Mostly Class 2 but also some Class 1 motor-driven cycles and some mini-sized motorcycles under the current classification						74
Motor-driven cycles Class 1	50cc & under		80	79	75	72	71	
Class I (see note)		Class 1 motor-driven cycles under the current classification						73

^{*}PMR: Power-to-mass ratio. Note: Beginning in 2014, for noise regulation purposes, motorcycles in Japan will be classified (based on their PMR values) under the Class I, II and III categories, and the Class 1 motor-driven cycle, Class 2 motor-driven cycle, mini-sized motorcycle and small-sized motorcycle categories will no longer apply.

Road Accidents and Resulting Fatalities and Injuries Continue to Decline

In 2013 road fatalities (defined as occurring within 24 hours after the accident) in Japan fell for the thirteenth straight year, to a total of 4,373. Road accidents and road injuries also declined, for the ninth consecutive year, to 629,021 and 781,494 respectively. Increased seatbelt use is one of the major factors behind the downward trend in road fatalities. The June 2008 revision to the Road Traffic Act requires all automobile passengers, including rear-seat occupants, to use seatbelts. Although the rate of use of rear seatbelts in 2013 stood at 35.1% on regular roads and at 68.2% on expressways, those rates remain low compared to the rate of use of front seatbelts, which approaches 100%. Further measures are needed to encourage rear-seat occupants to buckle up.

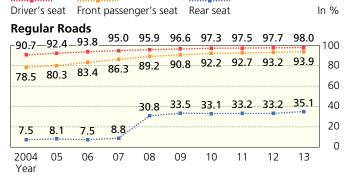


ROAD ACCIDENTS/INJURIES/FATALITIES (exact figures)

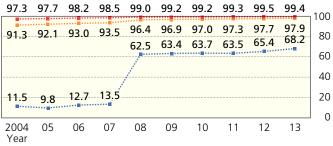
Injuries	476,677	,		761,794	931,950	934,339	737,628	725,903	692,056	665,138	629,021
UX1 (196: 677/167:	E00 740										
(11111111111111111111111111111111111111	598,719	681,346	790,295	922,677	1,155,707	1,157,115	911,215	896,294	854,610	825,396	781,494
Fatalities (Number of persons) 16,765 10,792	8,760	9,261	11,227	10,684	9,073	6,927	4,968	4,922	4,663	4,411	4,373

Source: National Police Agency

SEATBELT USE RATES BY SEAT POSITION

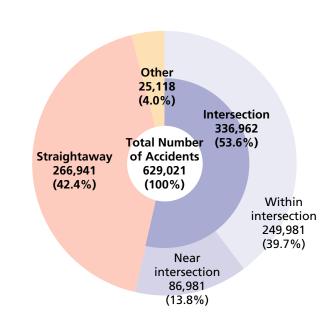


Expressways



Notes: 1. The survey on seatbelt use is conducted annually in October. 2. 2013 survey samples totalled roughly 411,000 on regular roads and 87,000 on expressways Sources: National Police Agency; Japan Automobile Federation

ROAD ACCIDENTS IN 2013 BY ROAD **CONFIGURATION** Number of accidents



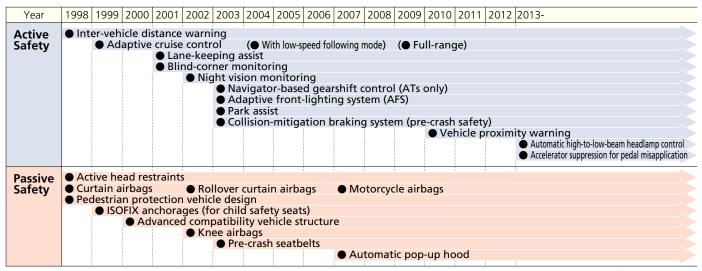
Notes: 1. "Straightaway" includes some curves and tunnels. 2. "Other" includes railroad crossings.

Source: National Police Agency

Equipping More Vehicles with Advanced Safety Features

Road safety involves three factors—vehicles, road users, and road infrastructure—and greater road safety requires that progress be made in all three areas. The automotive industry continuously strives for greater *active* safety by upgrading vehicle safety equipment and expanding its onboard installation rates, to help prevent accident occurrence. At the same time, it seeks to increase *passive* safety through enhanced structural safety and vehicle features designed to mitigate injury when accidents do occur.

VEHICLE SAFETY FEATURES & YEAR OF INTRODUCTION



Source: Japan Automobile Manufacturers Association

SAFETY FEATURE ONBOARD INSTALLATION STATUS (for passenger cars produced in 2012 for home market)

	Safatu Faatuua			Installatio	n Status	
	Safety Feature	In no. of mo	odels (1)	In % (2)	In vehicle units	In % (2)
A -4!	Brake assist	186	(176)	96.4	4,099,843	96.
Active	Unfastened seatbelt warning (front passenger's seat)	81	(76)	42.0	1,651,461	38.
Safety	Power-window jamming prevention (with auto-up function)	190	(190)	98.4	4,255,889	99.
	Power-window jamming prevention (without auto-up function)	33	(32)	17.1	753,100	17.
	High-intensity discharge headlamps	171	(61)	88.6	1,911,170	44.
	Adaptive front-lighting system (AFS)	50	(16)	25.9	245,051	5.
	Back-up monitoring (rear obstacle detection)	127	(24)	65.8	707,813	16
	Vehicle perimeter monitoring	41	(8)	21.2	142,240	3
	Vehicle perimeter obstacle warning	35	(7)	18.1	165,331	3
	Blind-corner monitoring	20	(0)	10.4	57,236	1.
	Night vision monitoring	5	(0)	2.6	1,620	0
	Curve detection	14	(1)	7.3	48,252	1.
	Tire pressure monitoring	12	(9)	6.2	75,914	1
	Driver inattention warning	24	(2)	12.4	149,739	3
	Inter-vehicle distance warning	47	(1)	24.4	111,633	2
	Lane departure warning	27	(1)	14.0	73,008	1
	Rear collision warning-equipped headrest control	5	(0)	2.6	1,752	C
	Collision-mitigation braking system (pre-crash safety)	51	(1)	26.4	100,290	2
	Adaptive cruise control	46	(2)	23.8	94,589	2
	Adaptive cruise control with low-speed following mode	7	(1)	3.6	63,154	1
	Full-range adaptive cruise control	12	(1)	6.2	68,639	1
	Lane-keeping assist	16	(0)	8.3	5,922	C
	Back-up monitoring (parking assistance)	15	(0)	7.8	37,222	C
	Navigator-based gearshift control	22	(8)	11.4	36,005	Č
	Pre-crash seatbelts	39	(2)	20.2	37,315	Č
	Electronic stability control	147	(94)	76.2	1,992,469	46
	Traction control with ABS	131	(85)	67.9	2,022,562	47
	Navigator-based stop sign alert with brake assist	14	(8)	7.3	37,112	0
	Rearward-approaching-vehicle warning	5	(0)	2.6	22,225	0
	Emergency braking warning	32	(30)	16.6	510,174	12
	Vehicle proximity warning (for HVs/EVs) (3)	23	(23)	29.5	461,995	24
	Collision-mitigation braking system (pre-crash safety at low-speed vehicle operation)	7	(0)	3.6	84,952	2
	Accelerator suppression for pedal misapplication	12	(4)	6.2	85,703	2
	Automatic high-to-low-beam headlamp control	15	(1)	7.8	45,748	1
	Side airbags	146	(65)	75.6	1,053,120	24
Passive	Curtain airbags	149	(63)	77.2	918,417	21
afety	Active head restraints	129	(125)	66.8	2,400,405	56
,	ISOFIX anchorages (for child safety seats)	184	(168)	95.3	4,004,148	93
	Three-point seatbelt for rear center seat (4)	135	(117)	92.5	2,318,228	85
	Total	155	193	52.5	4,265,993	- 65

^{(1) &}quot;In no. of models" indicates the number of models in which the safety feature is installed as standard or optional equipment. Figures in parentheses indicate the number of models in which the safety feature is standard equipment. (2) "In %" means as a percentage of the total number of models/units produced. (3) In 2012 a total of 78 hybrid/electric car models (1,894,003 vehicle units) were produced. (4) In 2012 a total of 146 passenger car models (2,719,032 vehicle units) were produced, excluding mini and other passenger cars which are not eligible for rear seat inclusion.

Note: Passenger cars here include minicars.

Source: Japan Automobile Manufacturers Association

JAMA Initiatives in Promoting Greater Road Safety

In April 2004, JAMA pledged its support of the Japanese government's goal to reduce road fatalities by 50% over a period of ten years. JAMA's own initiatives towards that goal are outlined below.

JAMA'S ROAD SAFETY INITIATIVES IN EIGHT PRIORITY AREAS

Priority Area	Road Users: Public Awareness Campaigns	Vehicles: Safety Measures	Road Infrastructure: Proposals to Government
① Accidents involving pedestrians or cyclists	Continued implementation of road safety public awareness campaigns, based on the results of accident causation studies.	More widespread application of AFS (1), ABS (2), BA (3), and stability control.	For infrastructural improvements, based on the results of accident causation studies.
② Special measures for the elderly	Development of road safety educational programs specifically for the elderly.	Development of technologies specifically geared to aging-related physical changes.	• For more widespread roadway/sidewalk demarcation and greater barrier-free mobility.
③ Greater use of seatbelts	• Public awareness campaigns to promote the use of seatbelts.		
Delays in driver recognition and incorrect vehicle control	 Campaigns aimed at preventing faulty driver recognition and incorrect vehicle control. 	Research into the mechanisms of accident causation and human-machine interface conditions using data recorders, etc.	
⑤ Accidents occurring at twilight/night	Campaigns to promote the early lighting of automobile headlamps.	More widespread application of AFS.	• For improved nighttime road illumination.
Accidents occurring at intersections	 Public awareness campaigns to encourage drivers to exercise greater caution at intersections, where the majority of fatal road accidents occur. 	More widespread application of ABS, BA, and stability control. Improvement of side-impact protection performance.	For road infrastructure regulations for effective utilization of ITS technologies.
⑦ Collisions with stationary objects		 Improvement of side-impact and vehicle occupant protection performance and of side and curtain airbags. 	For expanded provision of underground power lines and impact-absorbing road installations.
® Compatibility		R&D on crash-compatible vehicle bodies and compatibility evaluation methods to improve vehicle performance.	

⁽¹⁾ Adaptive front-lighting systems. (2) Anti-lock braking systems. (3) Brake-assist systems.

Automobiles and Society

Road Safety 4 National Initiatives

Japan's 9th Basic Plan for Road Safety

Japan's road safety measures are promoted on the basis of its succession of consecutive "basic plans" for road safety, the first of which was implemented in 1970. In line with the government's goal of eventually achieving "zero road accidents" nationwide, Japan's ninth road safety plan (2011-2015) aims to create a highly road safety-conscious society that places maximum priority on human life and, in particular, the safety of those of its members who are most vulnerable to road accidents—namely, pedestrians, senior citizens, and persons who are disabled. The plan emphasizes the need to pursue aggressive measures targeting further reductions in the occurrence of road accidents and fatalities.

JAPAN'S ROAD SAFETY TARGETS

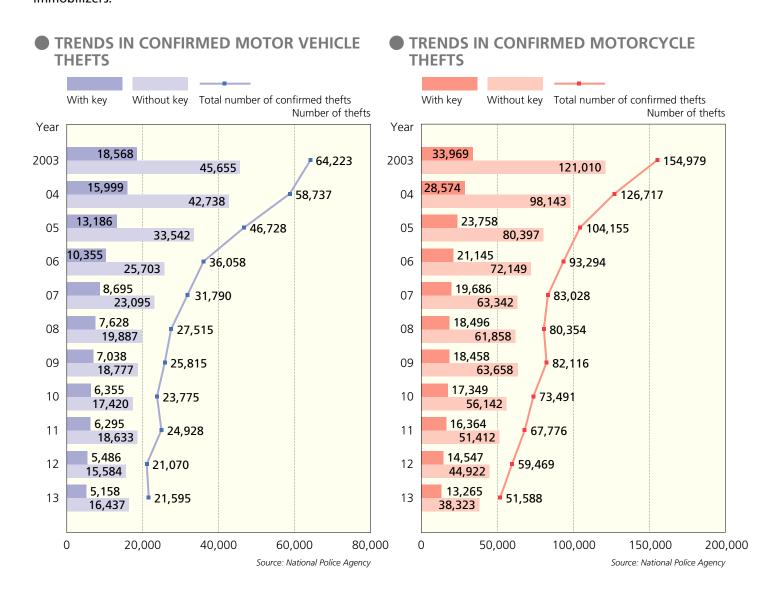
- To reduce the annual number of road fatalities (occurring within 24 hours post-accident) to below 3,000 by 2015, and thus to make Japan's roads the safest in the world.
- To reduce the total annual number of road fatalities (occurring within 24 hours post-accident) and injuries to below 700,000 by 2015.

EIGHT MAJOR AREAS OF ROAD SAFETY PROMOTIONAL ACTIVITY

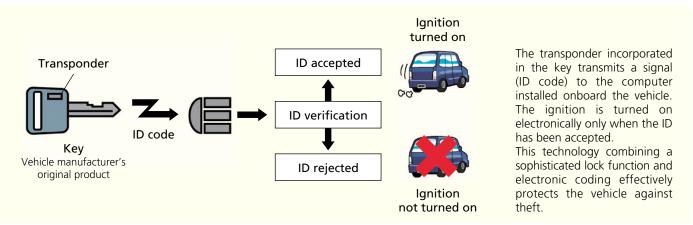
Road Infrastructure Improvements - Sidewalk construction/upgrades, especially in school zones - More pedestrian routes suitable for the elderly and disabled - Increased use of ITS	Road Safety Public Awareness Campaigns - Promotion of safe cycling - Promotion of road safety education for the elderly - Promotion of seatbelt use by all vehicle occupants - Promotion of road safety activities in local communities with the participation of residents
Promotion of Safe Driving - Implementation of special driver-education programs for the elderly - Vehicle fleet operation-related road accident analysis	Enhancement of Vehicle Safety - Expanded development and onboard application of Advanced Safety Vehicle technologies - Implementation of improvements to the national vehicle recall system - Promotion of regular vehicle checks and maintenance
Enforcement of Road Traffic Laws - Strict enforcement of traffic regulations - Stronger crackdowns on "hot-rodding" motorcyclists	Reinforcement of Emergency Rescue Operations Infrastructure - Improved training and deployment of emergency rescue personnel - Upgrading of emergency dispatch support systems - Promotion of doctor-staffed helicopters
Provision of Fair Compensation for Road Accident Victims - Enhanced support for the provision of fair "damages" compensation	Promotion of Road Safety Research and Analysis - Promotion of further safe-driving research - Promotion of comprehensive analysis of road accident causation

Efforts to Prevent Theft

After peaking at 64,223 in 2003, the annual number of automobile thefts in Japan shrank for seven consecutive years, registering 23,775 in 2010. Although rising slightly in 2011 and 2013, automobile thefts have continued their downward trend overall (attributable to the widespread use of immobilizers, or portable electronic lock systems), totalling 21,595 in 2013. Meanwhile, although 51,588 motorcycle thefts were reported in 2013, that figure nevertheless extends the nearly uninterrupted decline in such thefts since 2000. To enhance motor vehicles' "theftresistance," the automobile industry has very significantly expanded the supply of smart keys equipped with immobilizers.



A SAMPLE IMMOBILIZER DEVICE AND HOW IT WORKS



Note: The above diagram illustrates the operation of a vehicle manufacturer-supplied original product. Other types of immobilizers are available in the aftersales market.

81.9 Million People Hold Driver's Licenses

At the end of 2013 there were 81.9 million people, or 45.5 million men and 36.4 million women, holding valid driver's licenses in Japan. The number of driver's licenses held totalled 128.2 million (with one count allotted to each vehicle category covered, whenever a license covers multiple vehicle categories). By license category, Class 2 licenses were held by 2.33 million people, or 2.27 million men and 0.06 million women, and Class 1 licenses by 125.8 million people, or 81.65 million men and 44.19 million women.

GENDER TRENDS IN DRIVER'S LICENSE HOLDERS (at end of every calendar year) Number of persons

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Men	45,020,226	45,135,941	45,257,391	45,412,614	45,517,585	45,539,419	45,487,010	45,448,263	45,437,260	45,463,791
Women	33,226,722	33,662,880	34,072,475	34,494,598	34,930,257	35,272,526	35,523,236	35,767,003	36,050,586	36,396,221
Total	78,246,948	78,798,821	79,329,866	79,907,212	80,447,842	80,811,945	81,010,246	81,215,266	81,487,846	81,860,012

TOTAL NUMBER OF LICENSES HELD, BY YEAR & LICENSE/VEHICLE CATEGORY Number of licenses held

Year		2007	2008	2009	2010	2011	2012	2013
Class 2	Large motor vehicle	1,122,994	1,106,704	1,089,135	1,068,347	1,046,361	1,026,180	1,007,743
Licenses	Middle-category motor vehicle	1,234,075	1,200,328	1,162,250	1,121,287	1,081,474	1,042,120	1,002,043
	Ordinary motor vehicle	156,965	168,575	190,198	200,961	208,060	214,555	220,403
	Large special-purpose vehicle	48,030	47,753	47,238	46,698	46,055	45,463	45,041
	Traction vehicle	54,005	53,703	53,125	52,480	51,716	51,035	50,473
	Subtotal	2,616,069	2,577,063	2,541,946	2,489,773	2,433,666	2,379,353	2,325,703
Class 1	Large motor vehicle	5,523,190	5,499,204	5,464,835	5,415,730	5,375,268	5,337,727	5,299,480
Licenses	Middle-category motor vehicle	75,632,238	75,059,457	74,378,308	73,587,938	72,814,101	72,070,665	71,409,459
	Ordinary motor vehicle	705,387	1,961,618	3,177,214	4,370,510	5,550,718	6,749,966	7,936,169
	Large special-purpose vehicle	2,402,921	2,417,497	2,428,901	2,435,324	2,443,687	2,454,123	2,465,978
	Traction vehicle	1,115,034	1,130,186	1,139,434	1,145,609	1,152,732	1,160,509	1,168,205
	Large two-wheeler	12,195,811	12,006,075	11,765,267	11,472,937	11,197,903	10,938,930	10,703,691
	Ordinary two-wheeler	8,454,617	8,663,075	8,839,410	8,996,934	9,154,873	9,310,786	9,472,692
	Small special-purpose vehicle	656,664	629,151	598,136	565,103	532,892	503,338	477,296
	Motorized bicycle	17,365,524	17,358,087	17,304,896	17,190,548	17,075,472	16,977,729	16,905,848
	Subtotal	124,051,386	124,724,350	125,096,401	125,180,633	125,297,646	125,503,773	125,838,818
Total		126,667,455	127,301,413	127,638,347	127,670,406	127,731,312	127,883,126	128,164,521

Note: In the above figures, one count is allotted to each vehicle category covered, whenever a license covers multiple vehicle categories.

CLASS 1 LICENSES AND THE VEHICLE CATEGORIES THEY COVER

					Cla	ss 1 Licen	ses			
Vehicle Category	Large motor vehicle	Middle- category motor vehicle	Ordinary motor vehicle	Large special- purpose vehicle	Large two- wheeler	Ordinary two- wheeler	Ordinary two-wheeler (51cc-125cc)	Small special- purpose vehicle	Motorized bicycle	
Large motor vehic	Large motor vehicle									
Middle-category motor vehicle		•	•							
Ordinary motor vehicle		•	•	•						
Large special-purp	Large special-purpose vehicle				•					
Large two-wheele	r (over 400cc)									
Ordinary	126сс-400сс					•	•			
two-wheeler	51cc-125cc					•	•	•		
Small special-purpose vehicle		•	•	•	•	•	•	•	•	
Motorized bicycle	(50cc & under)	•	•	•	•	•	•	•		•

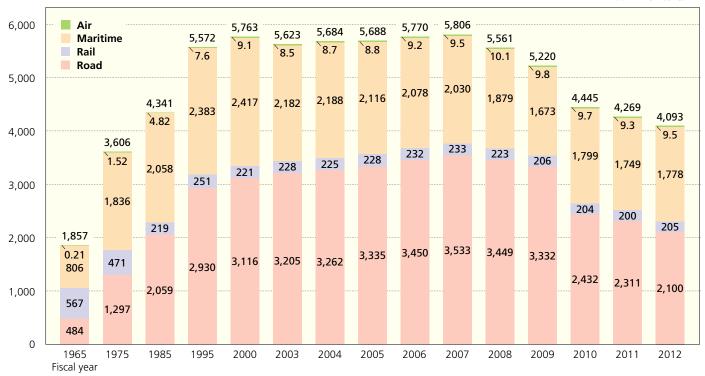
Notes: 1. As per a revision to the Road Traffic Act, the middle-category motor vehicle license went into effect from June 2, 2007. 2. The ordinary motor vehicle and large two-wheeler license categories include licenses restricted to automatic transmission (AT) cars/motorcycles; the ordinary two-wheeler license category includes licenses restricted, respectively, to AT motorcycles, to small-sized (over 250cc) motorcycles, and to small-sized AT motorcycles.

Motor Vehicles Are Vital to Goods Distribution

Accounting at present for 51% of Japan's total freight transport, road transportation plays an essential role in goods distribution. The role of motor vehicles in freight transport, especially small cargo transport, will become even more significant in the years ahead.



x 100 million tons/km



Notes: 1. Since 1987, "Road" includes transport by mini-vehicles. 2. Survey and calculation methods for "Road" data changed in 2010. 3. "Road" figures for fiscal 2010 (ending March 31, 2011) and 2011 do not include March and April 2011 data from the Tohoku region and Hokkaido as a consequence of the March 11, 2011 earthquake. Sources: Ministry of Land, Infrastructure, Transport and Tourism, etc.

Automobiles and Society

Automobile Customs Tariffs

Automobile Customs Tariffs

After repeated reductions in tariff rates, import tariffs in Japan on finished motor vehicles and major auto components were completely abolished in 1978. Meanwhile, some countries still impose high tariffs on imported vehicles. The United States imposes a 25% tariff on imported trucks, and EU import tariffs range from 10% (on finished passenger cars) to 22% (on larger-sized trucks). China's auto tariffs remain high despite having been progressively lowered after the country's accession to the World Trade Organization.

AUTOMOBILE CUSTOMS TARIFFS, JAPAN/U.S.A./EU/CHINA

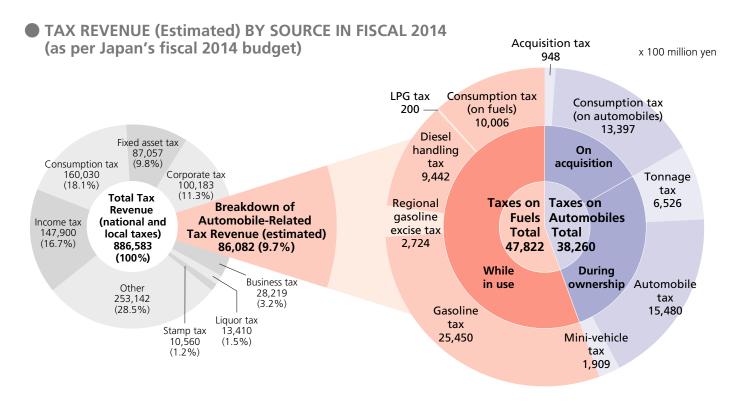
As of February 2014

	Japan	U.S.A.	EU	China
Passenger Cars	None	2.5%	10%	25%
Trucks	None	25% Cab chassis, 5t or greater in GVW4%	Gasoline trucks, over 2800cc Diesel trucks, over 2500cc	Trucks, under 5t in GVW
Buses	None	Vehicles for the transport of 10 or more persons, incl. the driver 2%	Vehicles for the transport of 10 or more persons, incl. the driver Gasoline buses, over 2800cc Diesel buses, over 2500cc	25%
Components, etc.	Major components: None	Bodies, parts and accessories 2.5%	1	Major components ····· 6-10%

Sources: Customs tariff schedules of countries/region concerned

Nine Trillion Yen in Annual Automobile-Related Tax Revenue

Since the initial earmarking of funds for road construction and road maintenance programs in line with Japan's first five-year road improvement plan in 1954, there has been a steady increase both in the number of automobile-related taxes assessed on users and in their respective rates. Currently, the automobile tax structure consists of nine different taxes, creating a very heavy tax burden for motor vehicle owners in Japan. Under the government's budget for fiscal 2014, the total value of tax revenue from these automobile-related taxes has been estimated at 8.6 trillion yen, or 9.7% of Japan's projected total tax revenue of 89 trillion yen in fiscal 2014.



Notes: 1. Automobile-related consumption tax revenue is not included in the "Consumption tax" segment in the chart on the left, but is included in the breakdown of automobile-related tax revenue appearing in the chart on the right. 2. Automobile-related consumption tax revenue values (including the consumption tax revenue from automobile servicing, not shown but included in figures here) have been calculated by JAMA. 3. The consumption tax is a national sales tax, of which 1% of the revenue is redistributed as revenue to local governments.

Sources: Ministry of Finance; Ministry of Internal Affairs and Communications

■ AUTOMOBILE-RELATED TAXES IN JAPAN (as of April 1, 2014)

Tax Category	On Acquisition	on	During Ownership
rax category	Acquisition Tax	Consumption Tax	Tonnage Tax
How Assessed	Assessed on the acquisition of an automobile, whether new or used, based on the purchase price	Assessed on the purchase price of the automobile	Assessed according to vehicle weight at each vehicle inspection
National/Local Tax	Prefectural tax	National and local tax	National tax
Tax Rate/ Amount	(Private use) - 3% of purchase price (2% for commercial vehicles and mini-vehicles) - Exempted for vehicles purchased for ¥500,000 or less Note: For eco-friendly vehicles, reductions/exemptions apply to the acquisition tax (see pages 48-50).	8% (of which 1.7% is a local tax)	1) Vehicles complying with 2015 fuel efficiency standards: ¥2,500/0.5t/year for private passenger cars (original rates apply) 2) Vehicles on the road 18 years or longer since first registration: ¥6,300/0.5t/year for private passenger cars 3) Vehicles on the road 13 years or longer since first registration: ¥5,400/0.5t/year for private passenger cars (¥5,700/0.5t/year for private passenger cars, from April 2016) 4) Other vehicles for private use: - Passenger cars: ¥4,100/0.5t/year - Trucks (GVW>2.5t): ¥4,100/t/year; Trucks (GVW≤2.5t): ¥3,300/t/year - Buses: ¥4,100/t/year; Mini-vehicles: ¥3,300/year - Motorcycles (251cc and over): ¥1,900/year - Motorcycles (126 to 250cc): ¥4,900 upon registration Note: For eco-friendly vehicles, reductions/exemptions apply to the tonnage tax (see pages 48-50).

■ JAPAN'S ESTIMATED AUTOMOBILE-RELATED TAX REVENUE IN FISCAL 2014

			Tax Revenue (x 100 million yen)	Original Tax Rate (for reference)	Current Tax Rate	Comparison with Original Tax Rate (multiplier value)
Taxes on Automobiles	On acquisition	Acquisition tax	948	3%	3% (Excluding commercial/mini-vehicles)	1.0
		Consumption tax (on automobiles)	13,397	8%	_	_
	During ownership	Tonnage tax	6,526	¥2,500/0.5t/year (Vehicles for private use)	¥4,100/0.5t/year (Vehicles for private use)	1.6
		Automobile tax	15,480	Based on engine capacity	No change	_
		Mini-vehicle tax	1,909	¥7,200/year (Passenger cars for private use)	No change	_
		Total	38,260			
Taxes on	While	Gasoline tax	25,450	¥24.3/ℓ	¥48.6/ℓ	2.0
Fuels	in use	Regional gasoline excise tax	2,724	¥4.4/l	¥5.2/l	1.2
		Diesel handling tax	9,442	¥15.0/ℓ	¥32.1/ℓ	2.1
		LPG tax	200	¥17.5/kg	No change	
		Consumption tax (on fuels)	10,006	8%	_	_
		Total	47,822			
Grand Total			86.082			

Notes: 1. Consumption tax revenue values (including the consumption tax revenue from automobile servicing, not shown but included in figures here) have been calculated by JAMA. 2. Current tax rates indicated effective as of April 1, 2014.

■ TAX RATES IN EFFECT (Examples), 1954-2014, TO SUPPORT ROAD NETWORK IMPROVEMENTS

Duration	"Five-Year" Plan	Fiscal Year	Acquisition Tax	Tonnage Tax ¥/0.5t/year	Gasoline Tax ¥/ℓ	Regional Gasoline Excise Tax ¥/ℓ	Diesel Handling Tax ¥/ℓ	LPG Tax ¥/kg
1954-′57	First	'54 '55 '56 '57			13.0 11.0 ↓ 14.8	2.0 \ 3.5	6.0 8.0	
′58-′60	Second	′59			↓ 19.2		↓ 10.4	
′61-′63	Third	′ 61	Commercial and mini-	In the case of a passenger car for	↓ 22.1	↓ 4.0	↓ 12.5	
′64-′66	Fourth	'64 '66	vehicles excluded_	private use	24.3	4.4	15.0	5
′67-′69	Fifth	'67 '68	3%					10
′70-′72	Sixth	′70 ′71		2,500	ļ	↓		17.5
′73-′77	Seventh	'74 '76	5% 	5,000 6,300	29.2 36.5	5.3 6.6	↓ 19.5	
′78-′82	Eighth	′79			45.6	8.2	24.3	
′83-′87	Ninth							
′88-′92	Tenth				+	 	+	
′93-′97	Eleventh	′93			48.6	5.2	32.1	
′98-′02	Twelfth	′98						
2003-'07	As per the national priority infrastructure development plan							
′08-	As per the national medium-term road infrastructure plan			, 6,300				
′10-′11	_			5,000				
′12-′13	_		+	4,100 (2,500*)	+	+	+	+
′14-	_		3%	4,100 (2,500*)	48.6	5.2	32.1	17.5
Comp	arison with original tax ra (multiplier value)	ite	1.00	1.64	2.00	1.18	2.14	1.00

(multiplier value)

Original tax rate *The original tonnage tax rate (\(\frac{\pmathbf{2}}{2}\),500/0.5t/year) is applied to vehicles compliant with 2015 fuel efficiency standards.

Source: Japan Automobile Manufacturers Association

				While in Use		
Automobile Tax	Mini-Vehicle Tax	Gasoline Tax	Regional Gasoline Excise Tax	Diesel Handling Tax	LPG Tax	Consumption Tax
Fixed amount assessed on the owner each year as of April 1	Fixed amount assessed on the owner each year as of April 1	Assessed on gas	soline	Assessed on light oil	Assessed on LPG	Assessed on the purchase
owner cach year as or riphi	owner each year as or April 1	Included in the	Included in the fuel price			price of fuels
Prefectural tax	Municipal tax	National tax		Prefectural tax	National tax	National and local tax
Passenger cars (for private use) - Up to 1,000cc	1) Mini-vehicles (for private use) - Passenger cars	¥48.6/£	¥5.2/₽	¥32.1/ℓ (light oil)	¥17.5/kg (LPG)	8% of the purchase price of fuels (of which 1.7% is a local tax) For light oil, imposed on the light oil price excluding the diesel handling tax

Source: Japan Automobile Manufacturers Association

Tax Incentives to Promote the Wider Use of Eco-Friendly Vehicles

To help expedite the shift to low-carbon road transport in the interest of curbing global warming, the Japanese government has, since April 2009, applied auto-related tax incentives to promote the wider use of eco-friendly vehicles. Expanded tax reductions have been in effect since April 1, 2014.

INCENTIVES & ELIGIBILITY REQUIREMENTS FOR NEW VEHICLES

ACQUISITION AND TONNAGE TAX REDUCTIONS/EXEMPTIONS

Period in effect: April 1, 2014 through March 31, 2015 for the acquisition tax; April 1, 2014 through April 30, 2015 for the tonnage tax.

	Vehicle Type		Redu	uctions/Exemptions
	Requirements	Certification Sticker(s)	Acquisition Tax (4)	Tonnage Tax
	Passenger Cars and Small Trucks a	and Buses (GVW≤2	.5t)	
	icles (including fuel cell vehicles), rid Vehicles, Clean Diesel Vehicles (1), Vehicles (2)		Exempt	Exempt at time of 1st 2nd vehicle inspection
Gasoline Vehicles	Compliant +20% compared to 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards (3)	MRES CONSES	Exempt	Exempt at time of 1st 2nd vehicle inspection
(including hybrid vehicles)	Compliant +10% compared to 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards (3)	明月世界(1800)日本 明	80% reduction	75% reduction
	Compliant with 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards (3)	医育局市建设车	60% reduction	50% reduction
	Mid-Sized Trucks and Buses ((2.5t <gvw≤3.5t)< th=""><th></th><th></th></gvw≤3.5t)<>		
	icles (including fuel cell vehicles), rid Vehicles, Natural Gas Vehicles (2)		Exempt	Exempt at time of 1st 2nd vehicle inspection
Diesel Vehicles	Compliant +10% compared to 2015 fuel efficiency standards, with NOx and PM emissions down by 10% from 2009 standards	SPUT COOKERS (SINCE OF STREET)	Exempt	Exempt at time of 1st 2nd vehicle inspection
(including hybrid vehicles)	Compliant +5% compared to 2015 fuel efficiency standards, with NOx and PM emissions down by 10% from 2009 standards	BRUS CRUES	80% reduction	75% reduction
vehicles)	·			
-	Compliant +10% compared to 2015 fuel efficiency standards, and compliant with 2009 emission standards	ngur oleman	80% reduction	75% reduction
-	Compliant +10% compared to 2015 fuel efficiency standards,	SENSONAL SINESTAL		75% reduction 50% reduction

	Vehicle Type	Reductions/Exemptions		
	Requirements	Certification Sticker(s)	Acquisition Tax (4)	Tonnage Tax
	Mid-Sized Trucks and Buses ((2.5t <gvw≤3.5t)< th=""><th></th><th></th></gvw≤3.5t)<>		
Gasoline Vehicles	Compliant +10% compared to 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards	STREET GRADE	Exempt	Exempt at time of 1st a 2nd vehicle inspection
(including hybrid vehicles)	Compliant +5% compared to 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards	ERECONEE SINESPEE	80% reduction	75% reduction
	Compliant +10% compared to 2015 fuel efficiency standards, with emissions down by 50% from 2005 standards	REST (1000년) (日本本本 ・ 日本 (1000년) (日本 (10	80% reduction	75% reduction
	Compliant with 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards	を	60% reduction	50% reduction
	Compliant +5% compared to 2015 fuel efficiency standards, with emissions down by 50% from 2005 standards	1999 (Substitution of the substitution of the		50% reduction
	Heavy-Duty Trucks and Bus	ses (GVW>3.5t)		
	icles (including fuel cell vehicles), rid Vehicles, Natural Gas Vehicles ⑵		Exempt	Exempt at time of 1st 2nd vehicle inspection
Diesel Vehicles	Compliant +10% compared to 2015 fuel efficiency standards, with NOx and PM emissions down by 10% from 2009 standards	nang (1688) EHLIJZII	Exempt	Exempt at time of 1st 2nd vehicle inspection
(including hybrid vehicles)	Compliant +5% compared to 2015 fuel efficiency standards, with NOx and PM emissions down by 10% from 2009 standards	を発展中 生 の発展する (近待はガス中) (日本の 1998年 1	80% reduction	75% reduction
	Compliant +10% compared to 2015 fuel efficiency standards, and compliant with 2009 emission standards	nnus olombia	80% reduction	75% reduction
	Compliant with 2015 fuel efficiency standards, with NOx and PM emissions down by 10% from 2009 standards	医费斯尔诺拉李 医描述 为 2中	60% reduction	50% reduction
	Compliant +5% compared to 2015 fuel efficiency standards, and compliant with 2009 emission standards	想看基準 (50X 后本)	60% reduction	50% reduction

⁽¹⁾ Passenger cars complying with 2009 emission standards. (2) With NOx emissions down by 10% from 2009 emission standards. (3) Fuel efficiency standards, "Compliant +10% compared to 2015 fuel efficiency standards," "Compliant +10% compared to 2015 fuel efficiency standards," and "Compliant with 2015 fuel efficiency standards" requirements are equivalent to "Compliant +50% compared to 2010 fuel efficiency standards," "Compliant +38% compared to 2010 fuel efficiency standards," and "Compliant +25% compared to 2010 fuel efficiency standards," respectively, when measured in the 10 • 15-mode test cycle, on which basis the 2010 fuel efficiency standards were established. (4) Acquisition tax reductions/exemptions are applied once, at the time of new vehicle purchase during the period in which these reductions/exemptions are in effect.

ACQUISITION AND TONNAGE TAX REDUCTIONS/EXEMPTIONS FOR HEAVY-DUTY VEHICLES EQUIPPED WITH ADVANCED SAFETY FEATURES AND PUBLIC-USE ASSISTED-MOBILITY VEHICLES

Period in effect: April 1, 2012 through March 31, 2015 for the acquisition tax; May 1, 2012 through April 30, 2015 for the tonnage tax.

	Vahisla Typa	Reductions/Exemptions			
	Vehicle Type	Acquisition Tax	Tonnage Tax		
Trucks (GVW>8t), Tractors (GVW>13t) and Buses (GVW>5t, for seated passengers only) equipped with a collision-mitigation braking system		¥3.5 million deduction from purchase price (1), (2)	50% reduction (1), (3)		
Assisted-Mobility Vehicles	Low-floor ("non-step") buses (for use in public transport)	¥10 million deduction from purchase price (2)	Exempt (3)		
	Buses equipped with an electric lift (for use in public transport)	For large buses (occupancy≥30 persons), ¥6.5 million deduction from purchase price (2) For small buses (occupancy<30 persons), ¥2 million deduction from purchase price (2)	Exempt (3)		
	Universal design-based taxis (for use in public transport)	¥1.0 million deduction from purchase price (2)	Exempt (3)		

⁽¹⁾ For large trucks (GVW>22t), some tractors (GVW>13t) and buses (GVW>12t, for seated passengers only), period in effect: April 1, 2012 through October 31, 2014. (2) Deductions are applied once, at the time of first registration. (3) Reductions/exemptions are applied once, at the time of first mandatory vehicle inspection.

FISCAL 2014-2015 AUTOMOBILE TAX REDUCTIONS FOR PASSENGER CARS AND SMALL TRUCKS AND BUSES (GVW≤2.5t) *

Requirements (1)	Reduction
Compliant +20% compared to 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards (also, compliant with 2020 fuel efficiency standards)	75% reduction approximately (2)
Compliant with 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards	50% reduction approximately (2)

INCENTIVES & ELIGIBILITY REQUIREMENTS FOR USED VEHICLES

FISCAL 2012-2013 ACOUISITION INCENTIVES FOR PASSENGER CARS AND SMALL TRUCKS AND BUSES (GVW≤2.5t) *

Requirements (1)	Certification Stickers	Incentive		
Compliant +20% compared to 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards (2)	第月星年 22 0%世紀 (明川出ガス年	¥450,000 deduction from purchase price		
Compliant +10% compared to 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards (2)	東京年本 (103 3年)	¥300,000 deduction from purchase price		
Compliant with 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards (2)	受責基本登成事 ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	¥150,000 deduction from purchase price		

Also applies to trucks and buses (gasoline vehicles only) and heavy-duty trucks and buses (hybrid vehicles only) certified as fuel-efficient and low-emission vehicles.

Notes: 1. The acquisition tax is assessed on the amount remaining after deduction. 2. The above tonnage tax reductions/exemptions do not apply to vehicles targeted by this scheme that are eligible for the tonnage tax reductions/exemptions prescribed for eco-friendly vehicles (see page 48), to which the latter measures only are applied. Regarding the acquisition tax, owners of vehicles covered under this scheme can opt either for the deductions indicated here or for the acquisition tax reductions/exemptions prescribed for eco-friendly vehicles (see page 48)

^{*}Also applies to trucks and buses (2.5t<GVW>3.5t, gasoline vehicles only) certified as fuel-efficient and low-emission vehicles.

(1) Applies additionally to electric (including fuel cell) vehicles, pluq-in hybrid vehicles, clean diesel passenger cars (compliant with 2009 emission standards) and natural gas vehicles (with NOx emissions down by 10% from 2009 standards). (2) For eligible vehicles newly registered in 2013 and 2014, the automobile tax reduction is applied in the fiscal year subsequent to

the year of registration.

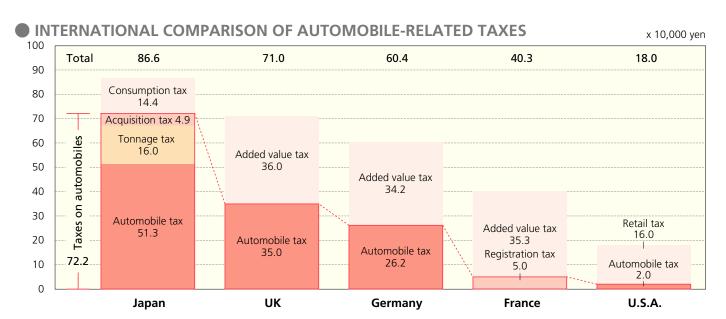
Note: This scheme also mandates a yearly 15% (10% for trucks and buses) surcharge on the automobile tax for gasoline and LPG-powered vehicles on the road 13 years or longer, and for diesel vehicles on the road 11 years or longer, since first registration.

[&]quot;Also applies to trucks and buses (gasonine venicles only) and neavy-duty trucks and buses (hybrid venicles only) certified as Ider-efficient and low-effission venicles.

(1) Applies additionally to electric (including fuel cell) vehicles, plug-in hybrid vehicles, clean diesel passenger cars (compliant with 2009 emission standards) and natural gas vehicles (with NOx emissions down by 10% from 2009 standards). (2) Fuel consumption and exhaust emission requirements are JC08 test cycle-based, with "Compliant +20% compared to 2015 fuel efficiency standards," "Compliant +10% compared to 2015 fuel efficiency standards," and "Compliant +25% compared to 2010 fuel efficiency standards," "Compliant +25% compared to 2010 fuel efficiency standards," and "Compliant +25% compared to 2010 fuel efficiency standards," respectively, when measured in the 10-15-mode test cycle, on which basis the 2010 fuel efficiency standards were established. Note: The acquisition tax is assessed on the amount remaining after deduction.

Automobile-Related Taxes are Onerous

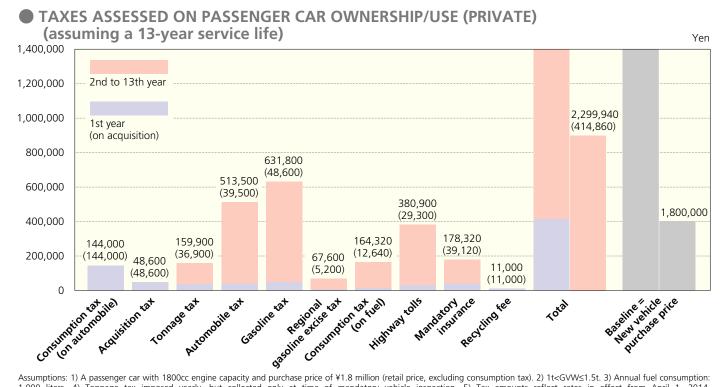
Consider the case of a passenger car costing 1.8 million yen when purchased new and providing 13 years of service to the original owner for private use. During that period, six different categories of taxes (including consumption tax at the time of vehicle purchase and on fuel) will be assessed on the owner/user, amounting to a grand total of roughly 1.73 million yen. In addition to these various taxes (totalling about 130,000 yen yearly), the user will also be required to pay onerous highway tolls, automobile insurance premiums (mandatory and optional), a recycling fee, periodic inspection fees and maintenance costs.



Assumptions: 1) Engine capacity: 1800cc. 2) 1t<GVW \le 1.5t. 3) Purchase price: ¥1.8 million. 4) Fuel consumption (JC08 test cycle-based): 15.4km/ ℓ (CO2 emissions: 151g/km). 5) France = Paris; U.S.A. = New York City. 6) France: Vehicle in no. 8 horsepower "class." 7) Service life: 13 years. 8) Currency exchange rates: ϵ 1 = ¥136, ϵ 1 = ¥163, US\$1 = ¥101 (averaged April 2013-March 2014).

Notes: 1. As shown here, tax amounts other than Japan's may not be the most current. 2. Does not include applicable incentives/surcharges, if any. 3. Does not include registration fees. 4. Automobile tax on private vehicles (i.e. for personal use only) was abolished in France as of 2000.

Source: Japan Automobile Manufacturers Association



Assumptions: 1) A passenger car with 1800cc engine capacity and purchase price of $\frac{1.8}{1.0}$ million (retail price, excluding consumption tax). 2) $\frac{1}{1.0}$ A passenger car with 1800cc engine capacity and purchase price of $\frac{1.8}{1.0}$ million (retail price, excluding consumption tax). 2) $\frac{1}{1.0}$ A passenger car with 1800cc engine capacity and purchase price of $\frac{1.8}{1.0}$ Annual fuel consumption: 1,000 liters. 4) Tonnage tax imposed yearly, but collected only at time of mandatory vehicle inspection. 5) Tax amounts reflect rates in effect from April 1, 2014. 6) Consumption tax = 8% of retail price. 7) The recycling fee indicated is the average rate for an 1800cc passenger car.

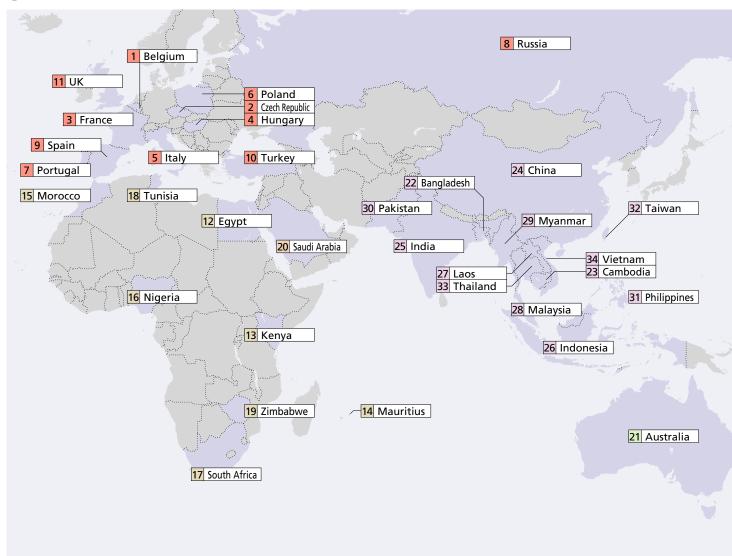
Notes: 1. Estimated highway tolls, mandatory insurance premium payments and recycling fee are included here because they can be considered similar to taxes. (Mandatory insurance premium values indicated effective as of April 1, 2014.) 2. Value of highway tolls was estimated by JAMA based on highway toll revenue in 2012.

Source: Japan Automobile Manufacturers Association

Global Manufacturing Operations Expand Their Range

Japanese automobile manufacturers have continued to develop local production operations, whether as wholly-owned subsidiaries or as joint ventures, in the United States, Europe, Southeast Asia, China and, recently, Russia and other countries with emerging markets. These operations contribute to the strengthening of local economies

GEOGRAPHICAL DISTRIBUTION OF JAPANESE AUTOMAKERS' OVERSEAS PRODUCTION BASES



JAPANESE AUTOMAKERS' OVERSEAS PRODUCTION BASES: Number of Plants by Country &

Country/ Territory	country No. (see map)	Motor Vehicles (incl. parts)	Motor- cycles (incl. parts)	Motor Vehicles & Motorcycles (incl. parts)	Parts Only					
Europe	Europe									
Belgium	1	-	-	-	1					
Czech Republ	ic 2	1	-	-	-					
France	3	1	1	-	-					
Hungary	4	1	-	-	-					
Italy	5	-	1	-	1					
Poland	6	-	-	-	2					
Portugal	7	2	-	-	-					
Russia	8	5	-	-	-					
Spain	9	1	1	-	-					
Turkey 10		4		-	-					
UK	11	3	-	-	1					
Europe Total		18	3	-	5					

Country/ Country/ (s	Motor Vehicles (incl. parts)	Motor- cycles (incl. parts)	Motor Vehicles & Motorcycles (incl. parts)	Parts	
Africa					
Egypt	12	5	-	-	-
Kenya	13	4		-	
Mauritius	14	1		-	
Morocco	15	1	-	-	-
Nigeria	16	-	1	-	
South Africa	17	6		-	
Tunisia	18	1	-	-	-
Zimbabwe	19	1	-	-	-
Africa Total		19	1	-	-
Middle East					
Saudi Arabia	20	1	-	-	-
Middle East Tota	al	1	-	-	-
Oceania					
Australia	21	1	-	-	1
Oceania Total		1	-	-	1

through employment creation, local parts purchasing and, in many cases, export revenue for the host countries. Locally-produced automobile parts such as engines and transmissions, as well as finished vehicles of some models, are exported to Japan and other destinations.



Items Produced

Country/ Country No. (see map)		Motor Vehicles (incl. parts)	Motor- cycles (incl. parts)	Motor Vehicles & Motorcycles (incl. parts)	Parts Only
Asia					
Bangladesh	22	2	1	-	-
Cambodia	23	-	2	-	-
China	24	23	8	-	17
India	25	11	4	-	1
Indonesia	26	11	4	1	7
Laos	27	-	1	-	-
Malaysia	28	10	3	-	2
Myanmar	29	1	-	-	-
Pakistan	30	5	1	1	-
Philippines	31	8	4	-	4
Taiwan	32	9	2	-	-
Thailand	33	14	4	-	8
Vietnam	34	7	1	2	1
Asia Total		101	35	4	40

Country/ Territory	Country No. (see map)	Motor Vehicles (incl. parts)	Motor- cycles (incl. parts)	Motor Vehicles & Motorcycles (incl. parts)	Parts Only
North Ame	rica				
Canada	35	4	-	-	1
U.S.A.	36	14	1	-	13
North Ame	rica Total	18	1	-	14
Latin Amer	ica				
Argentina	37	1	2	1	-
Brazil	38	6	4		2
Colombia	39	2	2	-	-
Ecuador	40	3	-	-	-
Mexico	41	6	1	1	-
Peru	42	-	1	-	-
Venezuela	43	2	1	-	-
Latin Amer	ica Total	20	11	2	2
World Tota	I	178	51	6	62

Source: Japan Automobile Manufacturers Association

Overseas Production Benefits Local Economies

The global operations of Japanese automobile manufacturers continue to grow, focusing increasingly on on-site manufacturing to meet local needs. Whether as independent operations, joint ventures or technical tie-ups, local manufacturing activities are conducted in numerous countries around the world (see pages 54-55). Overseas production brings significant benefits to local economies and host countries, including employment, industrial development, and technology transfer.

OVERSEAS PRODUCTION BY JAPANESE AUTOMOBILE MANUFACTURERS

In vehicle units

		NG: dalla					VIANOFA			In vehicle units
Year	Asia	Middle East	Europe	EU	North America	U.S.A.	Latin America	Africa	Oceania	Total
1985	208,589		44,658	43,175	296,569	296,569	90,252	99,500	151,574	891,142
1986	282,912	_	75,163	73,903	426,087	425,644	87,115	119,000	133,109	1,123,386
1987	355,758	_	102,943	100,794	608,446	592,761	104,925	134,000	127,003	1,433,075
1988	456,489	_	132,129	130,326	723,396	672,766	125,531	145,000	152,334	1,734,879
1989	597,402	_	205,005	203,215	1,040,868	932,242	144,811	184,500	166,541	2,339,127
1990	952,390	_	226,613	223,164	1,570,114	1,298,878	160,654	186,000	169,169	3,264,940
1991	1,035,715	_	285,994	282,278	1,684,964	1,378,907	169,001	172,000	134,051	3,481,725
1992	1,120,430	_	358,601	351,296	1,853,097	1,547,361	195,161	167,500	109,276	3,804,065
1993	1,315,346	_	496,574	472,744	2,030,478	1,691,239	211,802	179,000	106,754	4,339,954
1994	1,553,585	_	502,332	477,728	2,346,619	1,982,209	197,325	168,000	128,213	4,896,074
1995	1,882,850	<u> </u>	641,573	575,852	2,595,436	2,215,657	110,660	226,000	102,961	5,559,480
1996	1,950,621	_	738,378	650,990	2,641,451	2,275,525	140,031	195,674	118,097	5,784,252
1997	2,003,286	_	814,689	714,699	2,664,588	2,290,685	190,596	182,218	136,107	5,991,484
1998	1,215,202	5,688	920,985	814,847	2,674,299	2,270,516	260,131	144,181	150,685	5,371,171
1999	1,547,671	3,493	929,303	835,582	2,797,175	2,311,163	246,710	130,216	125,575	5,780,143
2000	1,673,740	4,258	953,170	837,679	2,991,924	2,480,691	387,732	146,435	130,933	6,288,192
2001	1,872,521	5,660	1,032,004	939,034	3,061,612	2,451,496	407,887	162,825	137,084	6,679,593
2002	2,380,621	6,000	1,153,059	1,015,748	3,375,453	2,720,449	445,862	155,973	135,498	7,652,466
2003	3,007,348	5,820	1,338,476	1,245,469	3,487,012	2,821,723	457,467	162,969	148,471	8,607,563
2004	3,638,978	10,800	1,454,903	1,296,516	3,840,744	3,143,603	534,863	191,537	125,726	9,797,551
2005	3,964,209	10,500	1,545,355	1,369,556	4,080,713	3,383,277	645,074	225,725	134,581	10,606,157
2006	4,129,856	11,400	1,702,836	1,509,402	4,001,639	3,281,073	745,827	259,050	121,635	10,972,243
2007	4,523,751	3,342	1,976,407	1,789,875	4,049,068	3,324,326	895,099	252,332	159,710	11,859,709
2008	4,877,074	0	1,876,109	1,693,151	3,576,246	2,893,466	920,738	257,646	143,741	11,651,554
2009	5,145,418	0	1,228,294	1,136,145	2,687,527	2,108,161	790,794	168,651	96,836	10,117,520
2010	7,127,042	0	1,356,126	1,250,226	3,390,095	2,653,231	982,342	206,476	119,473	13,181,554
2011	7,547,127	0	1,410,628	1,302,277	3,068,979	2,422,152	1,029,511	233,709	93,675	13,383,629
2012	8,500,825	0	1,484,110	1,383,583	4,253,869	3,324,703	1,234,584	248,711	101,381	15,823,480
2013	9,055,757	0	1,537,025	1,379,733	4,540,685	3,627,226	1,284,243	232,191	106,278	16,756,179
							d by the national			

Notes: 1. Data in principle is for Japanese-brand vehicles only. 2. Until 1997, data was based on statistics supplied by the national automobile trade associations of respective countries.

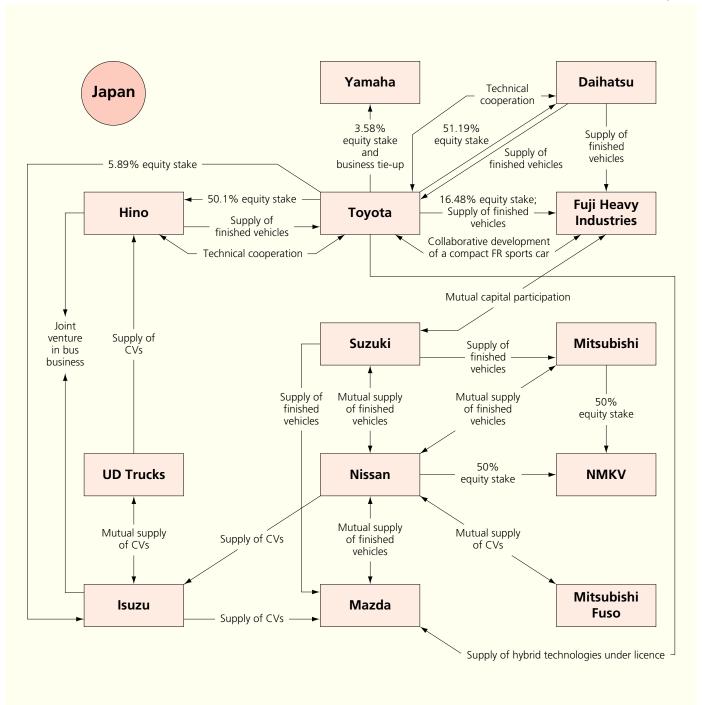
3. Mexico is included in Latin America and Turkey in Europe. 4. Data excludes vehicles produced with technical assistance only provided by Japanese automakers. 5. The figures reflect the use of a new method, adopted as of January 2007, for computing overseas unit production.

Source: Japan Automobile Manufacturers Association

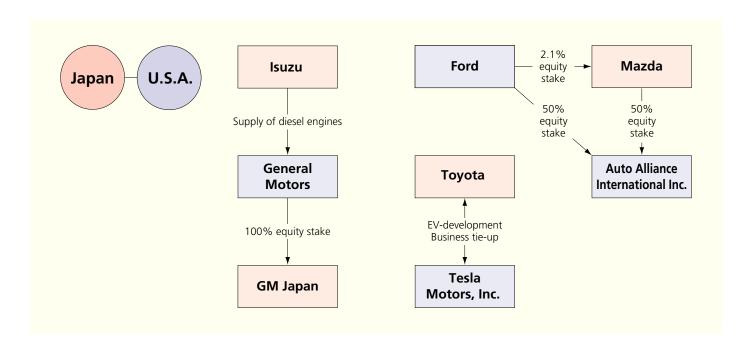
Japanese Automakers Forge Extensive International Alliances

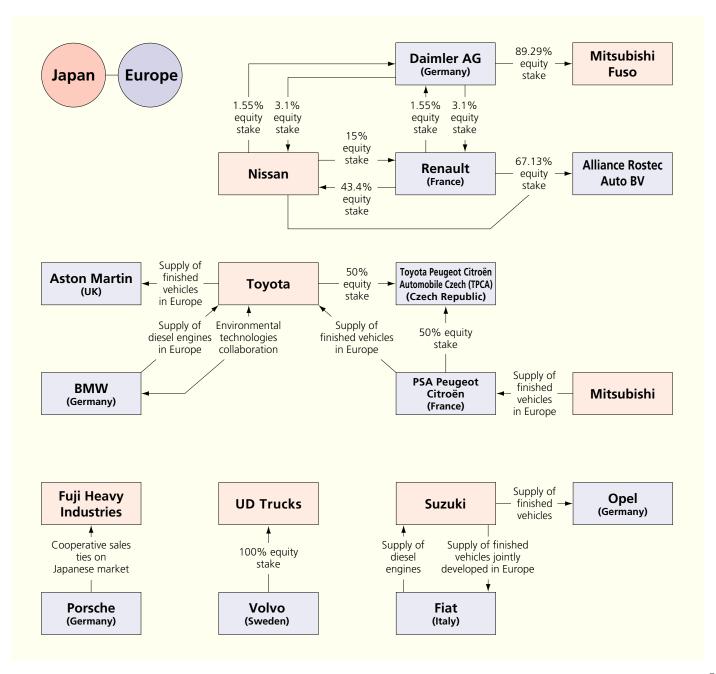
With economic globalization, Japanese automobile manufacturers have rapidly adapted to the needs of individual markets, not only by shifting production to those markets but also by forging extensive alliances with overseas manufacturers. Various forms of partnership currently exist between Japanese, U.S. and European automakers—including capital and technical tie-ups, joint R&D and production operations, and cooperative sales ties—and such arrangements are expanding yearly. With the rapid spread of motorization in China and Southeast Asia, Japanese automakers are actively building relationships with local manufacturers there on the basis of capital tie-ups and the supply of production as well as environment- and safety-related technologies.

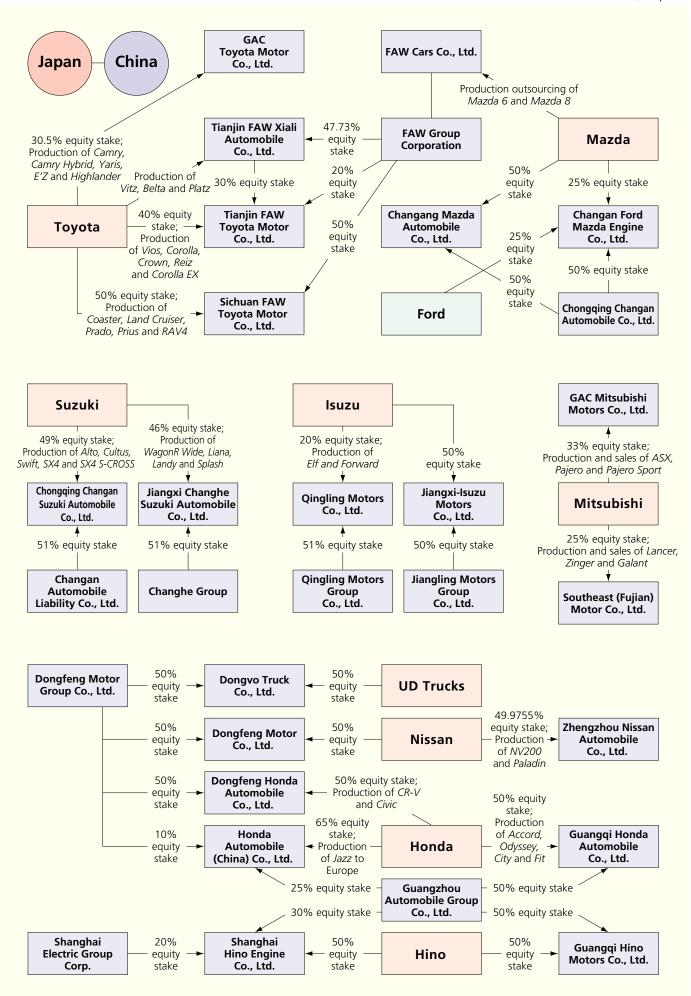
At March 31, 2014



Note: In principle, the tie-ups shown above cover only technical cooperation related to motor vehicle production and exclude sales tie-ups





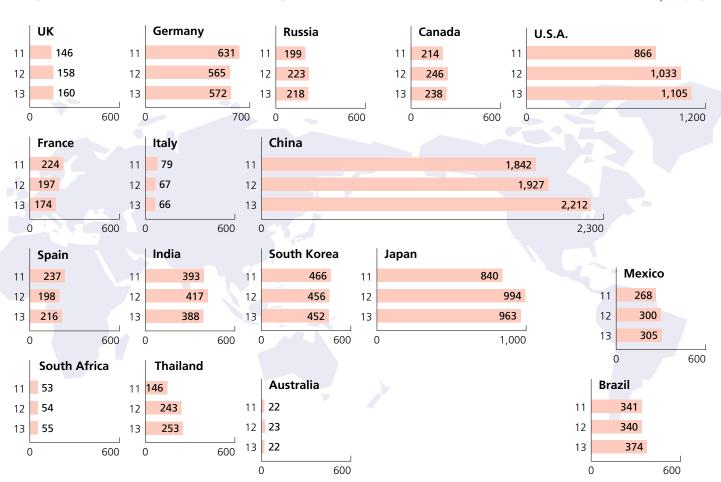


Motor Vehicle Production Increases Worldwide Except in Europe

In 2013 worldwide motor vehicle production (excluding motorcycles) grew 3.6% from the previous year to a total of 87.25 million units. By region, production increased in Africa (up 8.5% to 63,700 units), Latin America (up 5.8% to 7.71 million units), North America (up 4.9% to 13.43 million units), and Asia-Oceania (up 4.6% to 45.75 million units), but decreased in Europe (down 0.5% to 19.73 million units).

MOTOR VEHICLE PRODUCTION EXCLUDING MOTORCYCLES (MAJOR PRODUCING COUNTRIES)

x 10,000 units



GLOBAL MOTORCYCLE PRODUCTION (BY COUNTRY/TERRITORY)

In vehicle units

Country/	2010				2011			2012			
Territory	Mopeds	Motorcycles	Total	Mopeds	Motorcycles	Total	Mopeds	Motorcycles	Total		
Austria	_	39,909	39,909	_	_	48,710	_	_	76,575		
Czech Republic	49	733	782	39	1,116	1,155	22	2,297	2,319		
France	_	_	92,900	_	_	74,359	_	_	56,963		
Germany	_	99,244	99,244	_	_	110,084	_	_	101,690		
Italy	_	_	455,176	_	_	414,000	_	_	330,000		
Spain	_	_	123,123	_	_	95,399	_	_	44,019		
UK	_	_	23,455	_	_	23,886	_	_	20,590		
Brazil		1,830,614	1,830,614			2,136,891		1,690,187	1,690,187		
China		24,476,418	26,681,807	-	24,654,624	27,005,224		21,316,197	23,629,791		
India	_	_	13,349,349	_	_	15,427,532	_	_	15,721,180		
Indonesia	_	_	7,395,390	_	_	8,006,293	_	_	7,079,721		
Japan	_	664,175	664,175	_	639,187	639,187	_	595,473	595,473		
Malaysia	_	_	467,941	_	_	498,076	_	_	_		
Pakistan	_	_	838,665	_	_	865,812	_	_	824,245		
Philippines	_	813,261	813,261	_	_	762,947	_	_	588,458		
Taiwan	_	_	1,028,517	_	_	1,207,428	_	_	1,076,317		
Thailand	_	_	2,024,599	_	_	2,043,039	_	_	2,606,161		

Note: "—" means data is not available.

Sources: Motorcycle manufacturers' associations of individual countries, etc.

● GLOBAL MOTOR VEHICLE PRODUCTION (BY COUNTRY/REGION/TERRITORY)

In vehicle units

2011			2012			2013			
Country/Region/	Passenger	Trucks		Passenger	Trucks		Passenger	Trucks	
Territory	Cars	& Buses	Total	Cars	& Buses	Total	Cars	& Buses	Total
Austria	130,343	22,162	152,505	123,602	19,060	142,662	148,320	22,900	171,220
Belgium	560,779	34,305	595,084	504,076	34,232	538,308	449,600	30,564	480,164
Finland	2,540	91	2,631	2,900	0	2,900	3,330	0	3,330
France	1,931,030	311,898	2,242,928	1,682,814	284,951	1,967,765	1,460,000	280,000	1,740,000
Germany	5,871,918	439,185	6,311,103	5,388,459	260,801	5,649,260	5,439,904	278,318	5,718,222
Italy	485,606	304,742	790,348	396,817	274,951	671,768	388,465	269,742	658,207
Netherlands	40,772	32,379	73,151	24,895	0	24,895	0	0	C
Portugal	141,779	50,463	192,242	115,735	47,831	163,566	109,698	44,318	154,016
Spain	1,839,068	534,261	2,373,329	1,539,680	439,499	1,979,179	1,719,700	443,638	2,163,338
Sweden UK	188,969 1,343,810	0 120,189	188,969 1,463,999	162,814 1,464,906	0 112,039	162,814 1,576,945	161,080 1,509,762	0 87,671	161,080 1,597,433
Czech Republic	1,191,968	7,877	1,403,999	1,404,900	7,221	1,178,995	1,128,473	4,458	1,132,931
Hungary	211,218	2,313	213,531	215,440	2,400	217,840	220,000	2,400	222,400
Poland	741,000	97,133	838,133	539,671	115,085	654,756	475,000	108,258	583,258
Romania	310,243	24,989	335,232	326,556	11,209	337,765	410,959	38	410,997
Slovakia	639,763	0	639,763	926,555	0	926,555	975,000	0	975,000
Slovenia	168,955	5,164	174,119	126,836	4,113	130,949	89,395	4,339	93,734
Double Countings Germany/Belgium	-85,000	0	-85,000	-76,420	0	-76,420	-70,100	0	-70,100
Double Countings Germany/Italy	-6,570	0	-6,570	-5,400	0	-5,400	-5,300	0	-5,300
Double Countings Portugal/Japan	0	-8,847	-8,847	0	-7,071	-7,071	0	-6,084	-6,084
European Union (EU27)	15,708,191	1,978,304	17,686,495	14,631,710	1,606,321	16,238,031	14,613,286	1,570,560	16,183,846
Turkey	639,734	549,397	1,189,131	577,296	495,682	1,072,978	633,604	491,930	1,125,534
Serbia	10,227	796	11,023	10,227	805	11,032	10,100	805	10,905
Russia	1,744,097	246,058	1,990,155	1,970,087	263,016	2,233,103	1,919,636	255,675	2,175,311
Belarus	0	24,343	24,343	0	30,610	30,610	0	25,600	25,600
Ukraine	97,585	7,069	104,654	69,687	6,594	76,281	45,758	4,691	50,449
Uzbekistan	146,300	33,260	179,560	144,980	19,200	164,180	133,740	21,020	154,760
Double Countings Ukraine/World	-67,050	0	-67,050	0	0	0	0	0	0
CIS	1,920,932	310,730	2,231,662	2,184,754	319,420	2,504,174	2,099,134	306,986	2,406,120
Europe	18,279,084	2,839,227	21,118,311	17,403,987	2,422,228	19,826,215	17,356,124	2,370,281	19,726,405
Canada U.S.A.	990,482	1,144,639	2,135,121 8,661,535	1,040,298	1,423,066	2,463,364	965,191 4,346,958	1,414,615 6,698,944	2,379,806
North America	2,976,991 3,967,473	5,684,544 6,829,183	10,796,656	4,105,874 5,146,172	6,226,752 7,649,818	10,332,626 12,795,990	5,312,149	8,113,559	11,045,902 13,425,708
Mexico	1,657,080	1,023,970	2,681,050	1,810,007	1,191,807	3,001,814	1,771,987	1,280,408	3,052,395
Argentina	577,233	251,538	828,771	497,376	267,119	764,495	506,539	284,468	791,007
Brazil	2,519,389	888,472	3,407,861	2,589,236	813,272	3,402,508	2,742,309	998,109	3,740,418
Venezuela	69,115	33,294	102,409	67,226	36,857	104,083	45,986	25,767	71,753
Double Countings Venezuela/World	-56,520	-18,770	-75,290	-55,800	-21,640	-77,440	-29,590	-14,600	-44,190
Other	28,030	24,322	52,352	70,686	24,322	95,008	74,900	24,322	99,222
Latin America	4,794,327	2,202,826	6,997,153	4,978,731	2,311,737	7,290,468	5,112,131	2,598,474	7,710,605
North and Latin America	8,761,800	9,032,009	17,793,809	10,124,903	9,961,555	20,086,458	10,424,280	10,712,033	21,136,313
Australia	189,503	34,690	224,193	189,949	36,553	226,502	185,427	30,499	215,926
China	14,485,326	3,933,550	18,418,876	15,523,658	3,748,150	19,271,808	18,085,213	4,031,612	22,116,825
India	3,040,144	887,267	3,927,411	3,296,240	878,473	4,174,713	3,138,988	741,950	3,880,938
Indonesia	562,250	276,138	838,388	743,501	322,056	1,065,557	925,111	283,100	1,208,211
Iran	1,412,803	236,508	1,649,311	871,997	141,564	1,013,561	538,170	87,940	626,110
Japan	7,158,525	1,240,105	8,398,630	8,554,503	1,388,574	9,943,077	8,189,323	1,440,747	9,630,070
Malaysia Pakistan	488,441	45,254	533,695	509,621	59,999	569,620	540,200	55,970	596,170
Pakistan Philippines	139,700	22,494	162,194	137,424	22,175	159,599	119,000	20,162	139,162
South Korea	45,751 4,221,617	8,170 435,477	53,921 4,657,094	46,390 4,167,089	8,970 394,677	55,360 4,561,766	48,560 4,122,604	3,700 398,825	52,260 4,521,429
Taiwan	288,523	54,773	343,296	278,043	60,995	339,038	291,037	47,683	338,720
Thailand	537,987	919,811	1,457,798	945,100	1,484,042	2,429,142	1,122,780	1,409,797	2,532,577
Vietnam	29,904	1,277	31,181	38,900	1,570	40,470	38,900	2,020	40,920
	-119,670	0	-119,670	-127,610	0	-127,610	-148,710	0	-148,710
Double Countings China/World				35,174,805	8,547,798	43,722,603	37,196,603	8,554,005	45,750,608
Double Countings China/World Asia-Oceania	32,480,804	8,095,514	40,576,318	33,174,003					
		8,095,514 28,659	40,576,318 81,731	36,880	19,600	56,480	25,650	13,400	
Asia-Oceania	32,480,804					56,480 108,743	25,650 146,842		39,050
Asia-Oceania Egypt	32,480,804 53,072	28,659	81,731	36,880	19,600	-		13,400	39,050 167,452
Asia-Oceania Egypt Morocco	32,480,804 53,072 54,638	28,659 4,839	81,731 59,477	36,880 103,364	19,600 5,379	108,743	146,842	13,400 20,610	39,050 167,452 545,913
Asia-Oceania Egypt Morocco South Africa	32,480,804 53,072 54,638 312,265	28,659 4,839 220,280	81,731 59,477 532,545	36,880 103,364 274,873	19,600 5,379 264,551	108,743 539,424	146,842 265,257	13,400 20,610 280,656	39,050 167,452 545,913 -12,210
Asia-Oceania Egypt Morocco South Africa Double Countings Egypt/World Double Countings South Africa/World Other	32,480,804 53,072 54,638 312,265 -18,610 -25,780 0	28,659 4,839 220,280 -9,220 -69,140 5,634	81,731 59,477 532,545 -27,830 -94,920 5,634	36,880 103,364 274,873 -11,660 -22,080 0	19,600 5,379 264,551 -6,140 -84,140 5,769	108,743 539,424 -17,800 -106,220 5,769	146,842 265,257 -8,110 -20,050	13,400 20,610 280,656 -4,100 -89,405 5,769	39,050 167,452 545,913 -12,210 -109,455 5,769
Asia-Oceania Egypt Morocco South Africa Double Countings EgyptWorld Double Countings South Africa/World	32,480,804 53,072 54,638 312,265 -18,610 -25,780	28,659 4,839 220,280 -9,220 -69,140	81,731 59,477 532,545 -27,830 -94,920 5,634 556,637	36,880 103,364 274,873 -11,660 -22,080	19,600 5,379 264,551 -6,140 -84,140	108,743 539,424 -17,800 -106,220	146,842 265,257 -8,110 -20,050	13,400 20,610 280,656 -4,100 -89,405	39,050 167,452 545,913 -12,210 -109,455 5,769 636,519 87,249,845

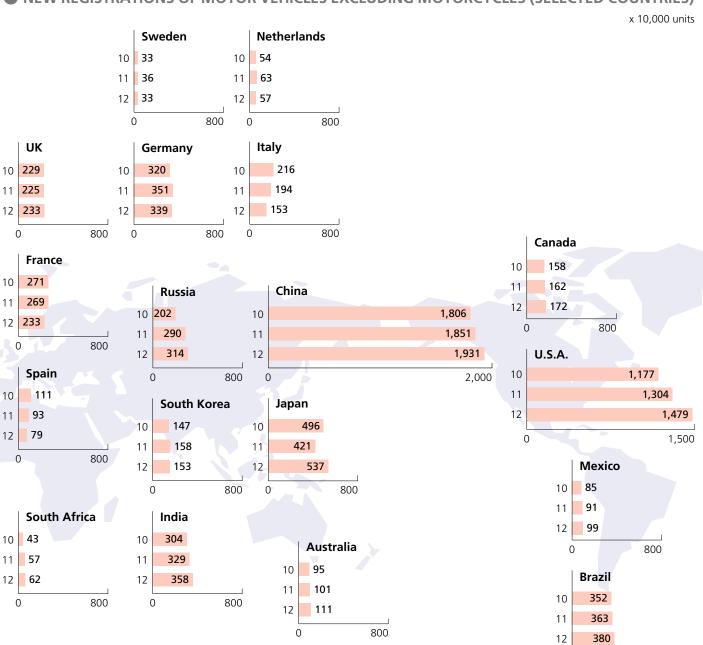
Notes: 1. Includes preliminary figures. 2. Some EU countries do not release truck and bus production data.

Sources: International Organization of Motor Vehicle Manufacturers (OICA); for Japan, Japan Automobile Manufacturers Association

Motor Vehicle Sales Rise in Thailand, Japan, Indonesia, the U.S.A., Australia, and Elsewhere

In 2012 overall new motor vehicle registrations (excluding motorcycles) increased 4.9% over the previous year to a global total of 81.7 million units. Vehicle sales rose in Thailand (up 74.7% to 1.38 million units), Japan (up 27.5% to 5.37 million units), Indonesia (up 24.8% to 1.12 million units), the United States (up 13.4% to 14.79 million units), Australia (up 10.3% to 1.11 million units), Mexico (up 9.0% to 988,000 units), South Africa (up 9.0% to 624,000 units), India (up 8.8% to 3.58 million units), and Russia (up 8.3% to 3.14 million units). On the other hand, new registrations dropped from the previous year in Italy (down 21.0% to 1.53 million units), Spain (down 15.1% to 791,000 units), Belgium (down 14.5% to 551,000 units), and France (down 13.2% to 2.33 million units).

NEW REGISTRATIONS OF MOTOR VEHICLES EXCLUDING MOTORCYCLES (SELECTED COUNTRIES)



800

0

NEW REGISTRATIONS OF PASSENGER CARS AND COMMERCIAL VEHICLES (BY COUNTRY)

Country Austria Belgium Czech Republic Denmark Finland	Passenger Cars 328,563 547,347 169,236 153,562	Commercial Vehicles 34,001 61,177	Total 362,564	Passenger Cars	Commercial Vehicles	Total	Passenger	Commercial	Total
Belgium Czech Republic Denmark	547,347 169,236		362 564		Verneies		Cars	Vehicles	Total
Czech Republic Denmark	169,236	61,177	302,304	356,145	40,510	396,655	336,010	38,819	374,829
Denmark			608,524	572,211	71,300	643,511	486,737	63,782	550,519
	153 562	17,772	187,008	173,595	21,350	194,945	174,009	19,786	193,795
Einland	133,302	19,675	173,237	170,036	28,482	198,518	170,763	28,384	199,147
riiilaliu	111,956	14,428	126,384	126,123	18,302	144,425	111,251	15,254	126,505
France	2,251,669	457,215	2,708,884	2,204,229	482,823	2,687,052	1,898,760	432,971	2,331,731
Germany	2,916,260	282,157	3,198,417	3,173,634	334,820	3,508,454	3,082,504	311,498	3,394,002
Greece	141,499	12,341	153,840	97,680	7,002	104,682	58,482	4,036	62,518
Hungary	46,069	10,424	56,493	45,094	15,899	60,993	19,424	3,649	23,073
Italy	1,962,042	202,566	2,164,608	1,749,740	193,209	1,942,949	1,402,905	131,984	1,534,889
Netherlands	482,531	59,781	542,312	555,812	71,945	627,757	502,544	69,349	571,893
Poland	333,599	54,260	387,859	277,427	59,799	337,226	273,589	54,943	328,532
Portugal	223,491	49,270	272,761	153,404	37,958	191,362	95,309	18,126	113,435
Romania	106,328	13,089	119,417	81,709	13,799	95,508	66,436	14,287	80,723
Slovakia	64,033	9,800	73,833	68,203	9,701	77,904	69,268	8,921	78,189
Spain	982,015	132,104	1,114,119	808,051	123,353	931,404	699,589	91,402	790,991
Sweden	289,684	44,450	334,134	304,984	54,082	359,066	279,899	46,542	326,441
UK	2,032,977	260,599	2,293,576	1,941,253	308,230	2,249,483	2,044,609	289,154	2,333,763
Russia	1,910,573	104,800	2,015,373	2,653,688	247,924	2,901,612	2,755,384	386,167	3,141,551
Switzerland	294,239	30,540	324,779	318,958	36,298	355,256	328,139	38,134	366,273
Turkey	515,595	281,600	797,195	593,519	270,920	864,439	556,280	261,340	817,620
Canada	694,349	889,039	1,583,388	681,956	938,265	1,620,221	748,530	967,648	1,716,178
U.S.A.	5,635,433	6,136,787	11,772,220	6,089,403	6,951,210	13,040,613	7,241,900	7,544,036	14,785,936
Mexico	499,567	347,314	846,881	592,101	313,785	905,886	649,333	338,414	987,747
Brazil	2,644,706	870,358	3,515,064	2,647,245	986,003	3,633,248	2,851,540	950,531	3,802,071
Argentina	524,514	173,785	698,299	626,037	220,814	846,851	600,915	231,111	832,026
Venezuela	_	_	125,202	65,339	55,350	120,689	60,776	69,777	130,553
China 1	13,757,794	4,304,142	18,061,936	14,472,416	4,032,698	18,505,114	15,495,240	3,811,195	19,306,435
India	1,871,041	1,168,479	3,039,520	2,510,313	777,424	3,287,737	2,773,516	803,240	3,576,756
Japan	4,212,267	743,869	4,956,136	3,524,788	685,431	4,210,219	4,572,332	797,388	5,369,720
South Korea	1,217,764	247,662	1,465,426	1,316,320	263,000	1,579,320	1,293,585	237,000	1,530,585
Malaysia	543,594	61,562	605,156	535,113	65,010	600,123	552,189	75,564	627,753
Indonesia	541,475	223,235	764,710	602,291	291,873	894,164	780,785	335,445	1,116,230
Thailand	346,644	453,713	800,357	390,000	400,000	790,000	950,000	430,000	1,380,000
Australia	757,813	191,174	948,987	559,314	449,123	1,008,437	576,955	535,177	1,112,132
Egypt	192,848	56,069	248,917	210,300	61,600	271,900	222,700	63,600	286,300
South Africa	279,081	146,656	425,737	396,292	175,949	572,241	440,002	183,919	623,921
Other	1,187,405	423,403	1,610,808	5,613,702	1,553,275	7,166,977	5,264,334	1,549,999	6,814,333
Grand Totals 5	50,769,563	18,589,296	69,484,061	57,258,425	20,668,516	77,926,941	60,486,523	21,252,572	81,739,095

Note: Exact figures are not available for Venezuela's 2010 "Passenger Cars" and "Commercial Vehicles" entries.

Sources: Automobile manufacturers' associations of individual countries; for Japan, Japan Automobile Dealers Association; Japan Mini Vehicles Association; Japan Automobile Manufacturers Association

More than 1.1 Billion Motor Vehicles in Use Worldwide

There were 1.11 billion motor vehicles (excluding motorcycles) in use worldwide in 2012, equivalent to 158 motor vehicles per 1,000 inhabitants or one vehicle for every 6.3 persons. Meanwhile, motorcycle density in recent years has been particularly high in Malaysia and Indonesia, with one motorcycle in use for every three persons; in Thailand, with one in use for every four persons; and in Italy, with one in use for every seven persons. In Japan, one motorcycle is in use for every 11 persons.

MOTOR VEHICLE DENSITY: INTERNATIONAL COMPARISONS (at end of 2012)

In vehicle units x 1 person No. of Motor Vehicles per 1.000 Inhabitants No. of Persons per Motor Vehicle Country **Total Motor Vehicles** (No. of Persons per Passenger Car) Passenger Cars U.S.A. (2.6)1.4 Australia (1.8)1.4 Italy 613 1.6 623 595 Canada (1.7)16 Switzerland (1.8)1.7 600 France 497 (2.0)1.7 Japan (2.1)1.7 595 Spain (2.1)1.7 Austria (1.8)1.8 568 530 Germany (1.9)561 494 1.8 IJK (2.0)18 Belgium (2.1)World 6.3 Average (9.1)

> Sources: Ministry of Land, Infrastructure, Transport and Tourism; Ward's, etc.; for population data, OECD, UN

MOTOR VEHICLES IN USE WORLDWIDE (at end of 2012) In vehicle units

	iii veriicie uriita		
Country	Passenger Cars	Commercial Vehicles	Total
Germany	43,431,124	3,107,000	46,538,124
Italy	37,078,274	4,921,712	41,999,986
France	31,600,000	6,538,000	38,138,000
UK	31,481,823	4,279,078	35,760,901
Spain	22,247,528	5,232,813	27,480,341
Netherlands	8,142,387	1,071,783	9,214,170
Belgium	5,392,908	846,083	6,238,991
Austria	4,584,202	426,081	5,010,283
Sweden	4,457,145	572,416	5,029,561
Poland	18,744,000	3,278,000	22,022,000
Switzerland	4,254,725	420,204	4,674,929
Turkey	8,648,875	4,178,324	12,827,199
Russia	38,482,000	6,901,000	45,383,000
U.S.A.	120,901,628	130,595,459	251,497,087
Canada	20,750,000	995,000	21,745,000
Mexico	22,961,571	9,881,728	32,843,299
Argentina	9,100,000	3,000,000	12,100,000
Brazil	29,566,116	7,705,144	37,271,260
Japan	59,421,009	16,704,524	76,125,533
China	52,165,000	57,275,000	109,440,000
South Korea	14,577,182	4,293,351	18,870,533
India	18,796,000	10,558,000	29,354,000
Thailand	6,273,983	6,591,061	12,865,044
Indonesia	10,494,000	7,510,000	18,004,000
Australia	12,714,235	3,265,521	15,979,756
South Africa	6,112,000	2,832,000	8,944,000
Other	130,945,230	38,255,408	169,200,638
Grand Totals	773,322,945	341,234,690	1,114,557,635

Sources: Ministry of Land, Infrastructure, Transport and Tourism; Ward's, etc.

MOTORCYCLE DENSITY: INTERNATIONAL COMPARISONS (No. of Persons per Motorcycle)

x 1 person 2012 Malaysia 2012 Indonesia 2012 Thailand 2012 Italy 2012 Switzerland 9 2012 Spain 2012 Japan 2012 Austria 12 2012 China 13 2012 Netherlands 14

Note: Data for Japan as at March 31.

Sources: Ministry of Land, Infrastructure, Transport and Tourism; Ministry of Internal Affairs and Communications; Federation of Asian Motorcycle Industries (FAMI); Motorcycle Industry in Europe (ACEM), etc.; for population data, OECD, UN

MOTORCYCLES IN USE WORLDWIDE

In vehicle units

Year	Country/Territory	Total
2012	Italy	8,582,796
2012	Spain	5,021,965
2012	France	3,089,125
2012	UK	1,224,849
2012	Netherlands	1,210,729
2012	Switzerland	850,561
2012	Austria	731,051
2012	Poland	2,207,556
2012	Czech Republic	976,911
2012	Germany	3,843,155
2012	Greece	1,776,435
2012	Turkey	2,657,722
2011	U.S.A.	8,330,210
2011	Mexico	1,310,397
2012	China	102,170,901
2012	Indonesia	75,980,927
2012	Japan	11,985,085
2012	Thailand	19,238,311
2012	Taiwan	15,139,628
2012	Malaysia	10,591,668
2011	South Korea	1,828,312
2011	Pakistan	5,469,630
2012	Philippines	4,120,315

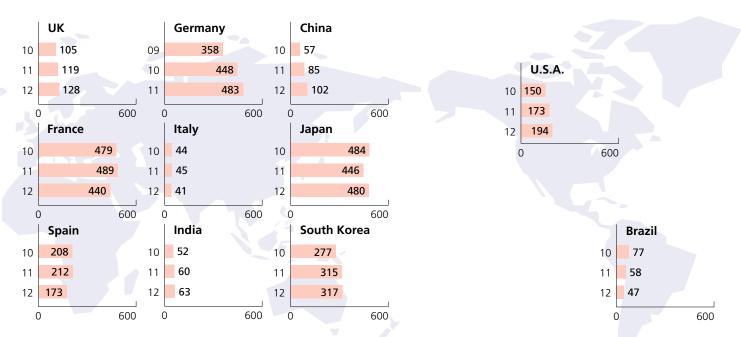
Sources: Ministry of Land, Infrastructure, Transport and Tourism; Ministry of Internal Affairs and Communications; Federation of Asian Motorcycle Industries (FAMI); Motorcycle Industry in Europe (ACEM), etc.

Motor Vehicle Exports Increase in China, the U.S.A., Japan, the UK, and India

Motor vehicle exports (excluding motorcycles) in 2012 increased over the previous year in China (to 1.02 million units, up 19.5%), the United States (to 1.94 million units, up 12.3%), Japan (to 4.80 million units, up 7.6%), the United Kingdom (to 1.28 million units, up 6.8%), and India (to 634,000 units, up 5.8%), but decreased in Spain (to 1.73 million units, down 18.5%), Brazil (to 473,000 units, down 18.2%), France (to 4.40 million units, down 10.0%), and Italy (to 407,000 units, down 10.0%). Motorcycle exports in 2012 showed a year-on-year rise in Indonesia (to 77,000 units, up 148.8%) and India (to 1.96 million units, up 0.7%), but declined in China (to 8.71 million units, down 17.5%) and Japan (to 479,000 units, down 5.1%).

MOTOR VEHICLE EXPORTS (MAJOR EXPORTING COUNTRIES)

x 10,000 units



MOTOR VEHICLE EXPORTS (MAJOR EXPORTING COUNTRIES)

In vehicle units

2010				2011		2012			
Country	Passenger Cars	Commercial Vehicles	Total	Passenger Cars	Commercial Vehicles	Total	Passenger Cars	Commercial Vehicles	Total
Japan	4,275,366	566,094	4,841,460	3,929,904	534,509	4,464,413	4,198,494	605,097	4,803,591
U.S.A.	1,080,981	420,894	1,501,875	1,300,075	427,562	1,727,637	1,515,337	425,622	1,940,959
Germany	4,238,759	242,147	4,480,906	4,518,973	307,960	4,826,933	4,131,279	_	-
UK	961,420	85,547	1,046,967	1,124,676	69,376	1,194,052	1,211,766	63,733	1,275,499
France	4,306,065	480,430	4,786,495	4,336,759	556,356	4,893,115	3,898,019	506,303	4,404,322
Italy	231,557	209,172	440,729	203,769	249,039	452,808	174,514	232,867	407,381
Spain	1,658,341	421,441	2,079,782	1,642,578	478,490	2,121,068	1,326,777	402,395	1,729,172
Brazil	616,125	151,307	767,432	405,575	173,153	578,728	308,562	164,625	473,187
South Korea	2,610,949	161,158	2,772,107	2,980,659	171,049	3,151,708	3,012,584	158,050	3,170,634
China	282,368	284,285	566,653	470,090	379,718	849,808	587,700	428,029	1,015,729
India	444,326	74,043	518,369	507,318	92,663	599,981	554,686	79,944	634,630

Note: "—" means data is not available at the end of March 2014.

Sources: Ward's, etc.; for Japan, Japan Automobile Manufacturers Association

MOTORCYCLE EXPORTS (MAJOR EXPORTING COUNTRIES/TERRITORY)

In vehicle units

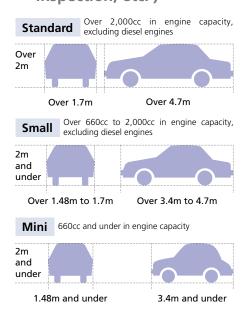
	2010			2011			2012		
Country/Territory	Mopeds	Motorcycles & Scooters	Total	Mopeds	Motorcycles & Scooters	Total	Mopeds	Motorcycles & Scooters	Total
Japan	0	493,464	493,464	0	504,985	504,985	0	479,163	479,163
China	_	8,291,590	8,291,590	_	10,555,996	10,555,996	_	8,707,120	8,707,120
Taiwan		302,350	302,350		299,866	299,866		297,275	297,275
Indonesia	_	_	29,395	_	_	30,995		_	77,129
India	_	_	1,531,619	_	_	1,947,198	_	_	1,960,941

Note: "—" means data is not available at the end of March 2014

Classifications According to the Road Vehicles Act and the Road Traffic Act

Japan classifies motor vehicles according to the provisions of two basic laws: the Road Vehicles Act and the Road Traffic Act. Road Vehicles Act classifications are used for registration statistics, vehicle inspection, and related maintenance and repair. Road Traffic Act classifications determine the different categories of driver's licenses. Vehicle registration number/character combinations are determined by vehicle type and usage in accordance with Road Vehicles Act designations, and a "vanity plate" system has been introduced nationwide.

CLASSIFICATION UNDER THE ROAD VEHICLES ACT (for registration, inspection, etc.)



Note: A vehicle that exceeds any one of the requisites above is classified in the higher category.

CLASSIFICATION UNDER THE ROAD TRAFFIC ACT (for driver's license issuance)

Large Motor Vehicles

Gross vehicle weight: ≥11 tons Payload: ≥6.5 tons or Occupancy: ≥30 persons

Ordinary Motor Vehicles

Gross vehicle weight: <5 tons Payload: <3 tons or Occupancy: <11 persons

Middle-Category Motor Vehicles (1)

Gross vehicle weight: 5≤tons<11 Payload: 3≤tons<6.5 or Occupancy: 11≤persons<30

Special-Purpose Motor Vehicles

Motor vehicles with caterpillar treads such as bulldozers, steamrollers, graders, snowplows, tractors, etc. are classified into two categories: large and small. Small special-purpose motor vehicles are those of up to 15km per hour in maximum speed, up to 4.7m in length, up to 2m in height (2), and up to 1.7m in width.

(1) As per a revision to the Road Traffic Act, the middle-category motor vehicle classification went into application in June 2007. (2) Projections on small special-purpose vehicles should not exceed 2.8m.

Note: The Road Traffic Act stipulates that the driver of any one-rider, three- or four-wheeled vehicle of up to 50cc in engine capacity, with a legal maximum speed of 50km/h and a maximum load of 30kg, is required to hold an "ordinary motor vehicle" driver's license.

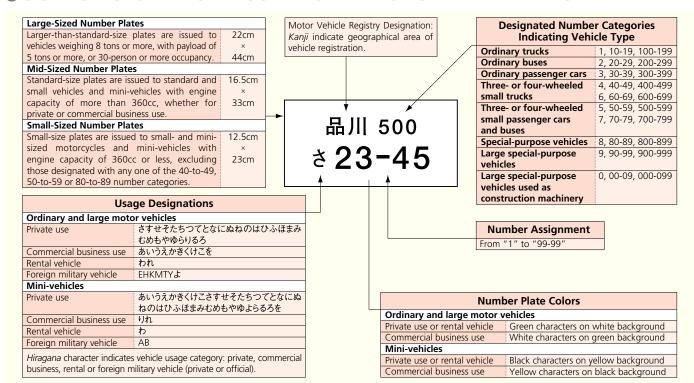
CLASSIFICATION OF MOTORCYCLES

Road Vehicles Act									
Category	Engine Capacity	Rated Output	Width	Height	Length				
Small-sized	Over 250cc	Over 1.0kW	Over	Over	Over				
			1.3m	2.0m	2.5m				
Mini-sized	126cc to	Over 1.0kW	1.3m and	2.0m and	2.5m and				
	250cc		under	under	under				
Motor-driven	51cc to	Over 0.6kW	1.3m and	2.0m and	2.5m and				
cycles Class 2	125cc	to 1.0kW	under	under	under				
Motor-driven	50cc and	0.6kW and	1.3m and	2.0m and	2.5m and				
cycles Class 1	under	under	under	under	under				

Road Tra	Road Traffic Act				
Catagoni	Engine				
Category	Capacity				
Large	Over				
	400cc				
Ordinary	51cc to				
	400cc				
Motorized	50cc and				
bicycles	under				

Note: A motorcycle that exceeds any one of the requisites above is classified in the higher category.

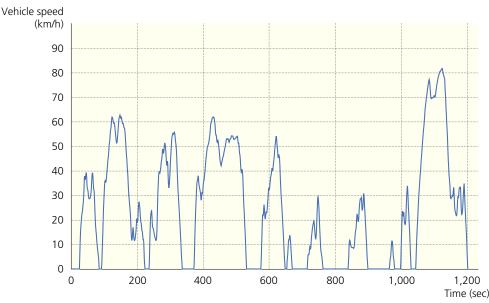
SIGNIFICANCE OF VEHICLE REGISTRATION DATA & NUMBER PLATE TYPES



Japan's Test Cycles for Measuring Fuel Consumption and Exhaust Emissions

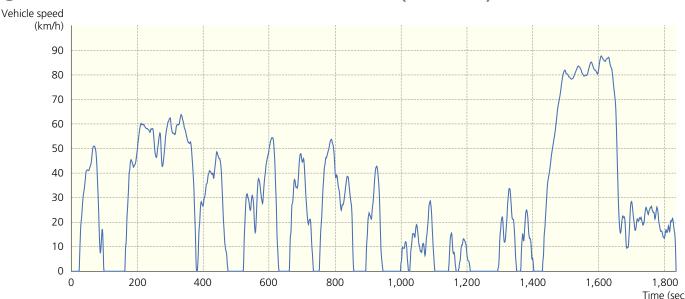
The JC08 test cycle is now the only test cycle applied in Japan to measure fuel consumption rates as well as exhaust emissions in non-heavy-duty vehicles, having replaced the 10.15-mode and (less commonly used) 11-mode test cycles. The objective in using the JC08 test cycle is to obtain test results that are as close as possible to actual on-road fuel consumption rates. Certified fuel efficiency values are therefore indicated on the basis of JC08 test cycle results and, for heavy-duty vehicles, on the basis primarily of JE05 test cycle results.

● THE JC08 TEST CYCLE



The JC08 cycle reflects typical vehicle running patterns in congested urban and urban expressway traffic (including idling and frequently-alternating acceleration and deceleration), but, compared to its predecessors, it increases the duration of the test cycle and the variation in running patterns. Measurement is made with both a cold start and a warm start, at a maximum speed of 82km/h.

■ THE JE05 TEST CYCLE FOR HEAVY-DUTY VEHICLES (GVW>3.5t)



The JE05 cycle for heavy-duty vehicles includes idling and frequently-alternating acceleration and deceleration, also reflecting a typical vehicle running pattern in today's congested urban areas, as well as an expressway running mode. Engine revolution and torque are predetermined to reach target speed based on test vehicle specifications. Measurement is made on the engine alone, while following the transient driving pattern.

Alternative Systems Expedite Certification

Motor vehicle certification in Japan is based primarily on the Type Approval System, which is applied both to domestic and imported automobiles and covers most mass-produced models. The Preferential Handling Procedure for imported motor vehicles is an alternative procedure which was instituted to expedite the certification of foreign-made vehicles that are imported in limited quantities. The third procedure, the Type Notification System, is mainly applied to large commercial vehicles.

THE TYPE APPROVAL SYSTEM

This certification procedure is applied to domestic and imported mass-produced models. The Ministry of Land, Infrastructure, Transport and Tourism (MLIT) inspects a sample vehicle and the quality-control system of the automobile manufacturer concerned, then completes the type approval process within two months in principle. All finished vehicles that have been granted type approval are then inspected by the manufacturer, eliminating the need to present them for new vehicle inspection. For imported vehicles, the MLIT not only dispatches officials overseas to conduct certification inspections but also accepts the test results of designated foreign testing institutes.

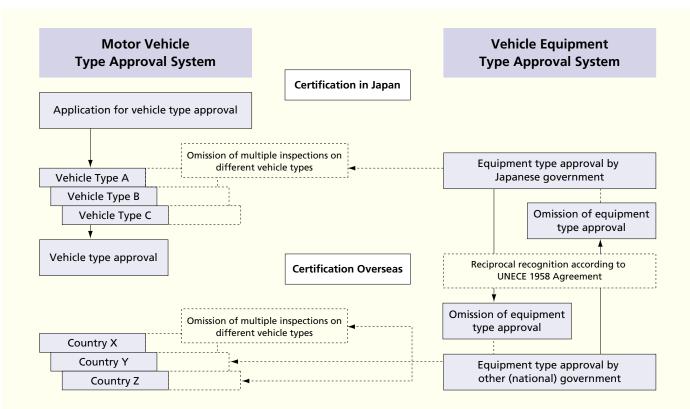
THE PREFERENTIAL HANDLING PROCEDURE FOR IMPORTED VEHICLES

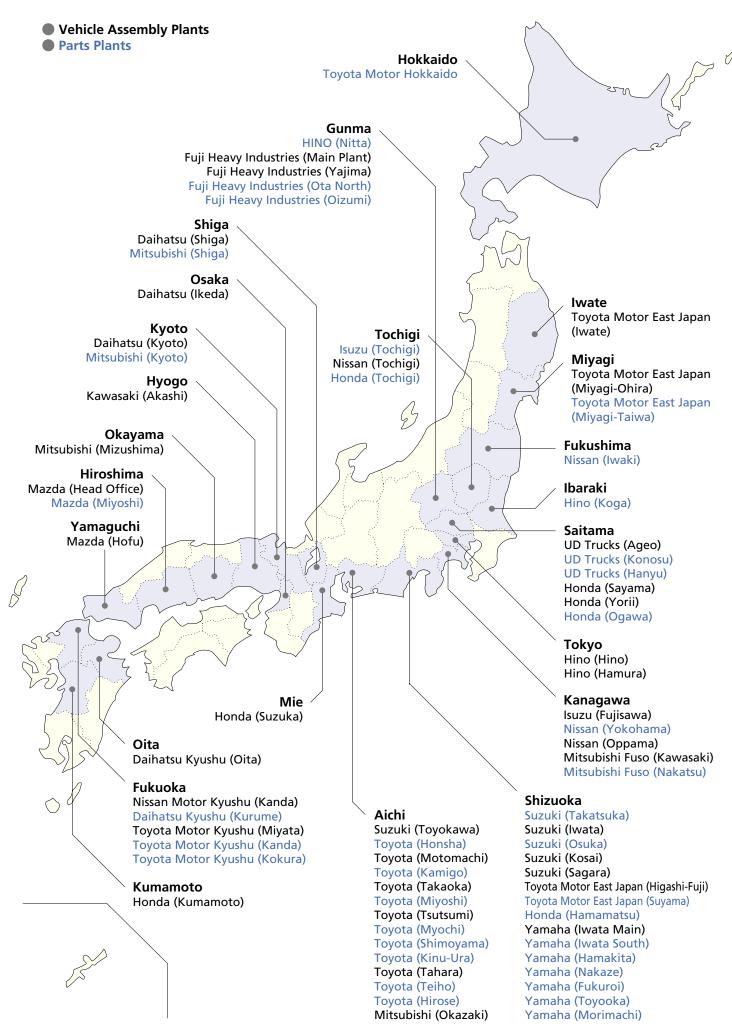
This procedure is applied to models that are imported into Japan in quantities of 5,000 units or less per year. Designed to make the importation of vehicles simpler and faster, it exempts the applicant from undergoing the sample vehicle inspection that is mandatory under the Type Approval System. The MLIT inspects only the application documentation and issues a form indicating completion of the procedure within one month.

RATIONALIZATION OF MOTOR VEHICLE/RECIPROCAL EQUIPMENT TYPE APPROVAL SYSTEMS

Increased globalization in the automobile industry worldwide is underscoring the need for the more widespread adoption of reciprocal recognition systems, under which certification is mutually recognized between importing and exporting countries or regions. Meanwhile, the UNECE World Forum for Harmonization of Vehicle Regulations (also known as WP.29) is making steady progress towards the establishment of global technical regulations (GTRs) focusing on vehicle safety and environmental standards. In 1998 the Japanese government officially acceded to the UNECE 1958 Agreement, under which each signatory government reciprocally recognizes certifications of vehicle structure and equipment issued by all the other signatory countries. It also introduced the Vehicle Equipment Type Approval System, which specifically addresses the expanding common use of equipment in vehicle manufacturing. This system not only allows equipment and parts that have been certified by 1958 Agreement co-signatory countries to be exempted from undergoing certification procedures in Japan, but furthermore does not require them to be inspected again if they are used in other models.

JAPAN'S RATIONALIZATION OF MOTOR VEHICLE/RECIPROCAL EQUIPMENT TYPE APPROVAL SYSTEMS







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