

Toyota Motor (7203)

"To strengthen our foothold" for further growth, but sizeable profit upside; Buy

Reiterate Rating: BUY | PO: 3,600 JPY | Price: 3,135 JPY

Raise PO to ¥3,600, reiterate Buy

We raise our estimates, reiterating our Buy rating. We lift our price objective from \$3,400 to \$3,600 (base year shifted to FY3/25). OPM reached an astonishing 14% in 3Q (2Q: 12.6%). We assume low volume growth in FY3/25 in part owing to company restraint in production, but see good visibility on continued profit growth given (A) improvement in mix (sales growth for HEVs, which have very low incentives), (B) repricing boosts, (C) a lift from normal cost reductions, and (D) normalization in Daihatsu's operations. We raise our OP estimate from \$4.79tn to \$5.02tn for FY3/24 (+84% YoY, revised guidance \$4.9tn), and from \$5.33tn to \$5.90tn for FY3/25 (+17%).

FY3/25: "To strengthen our foothold", but profit growth driver from brisk HEV demand

We see expansion in HEV sales driving growth in earnings per vehicle in FY3/25. HEV base earnings/vehicle are already on par with ICEVs' and with incentives being held at very low levels amid current buoyant demand, recent OP/vehicle is well above ICEVs.' Toyota says it will be working on "To strengthen our foothold" in response to group company misconduct. At the briefing it signaled optimization in production levels and extra support for suppliers, including with labor cost. We note that revised FY3/24 guidance reflects compensation to customers and suppliers for Daihatsu irregularities. Toyota said it is not disclosing the assumptions but we have the impression that they are quite conservative.

Few clear answers on unwinding group crossholdings

Clear-cut comments on the unwinding of group crossholdings were limited at the briefing. In regard to the 20% benchmark for the Denso holding ratio in share sales, Toyota said this does not apply to all group companies.

Estimates (¥)	3/22A	3/23A	3/24E	3/25E	3/26E
	IFRS	IFRS	IFRS	IFRS	IFRS
EPS	205.23	179.47	332.79	370.92	385.56
EPS Change (YoY)	27.7%	-12.6%	85.4%	11.5%	3.9%
Dividend / Share	52	60	100	111	116
BPS	1,889.9	2,074.8	2,298.1	2,541.1	2,795.1
Valuation					
P/E	15.3x	17.5x	9.4x	8.5x	8.1x
Dividend Yield*	1.7%	1.9%	3.2%	3.5%	3.7%
P/B	1.7x	1.5x	1.4x	1.2x	1.1x
EV/ EBITDA*	14.0x	14.2x	9.5x	8.4x	8.1x
Free Cash Flow Yield*	0.5%	-0.9%	3.0%	2.2%	2.5%
* For full definitions of <i>iQmethod</i> measures, see page 9.					

BofA Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

Refer to important disclosures on page 10 to 13. Analyst Certification on page 7. Price
Objective Basis/Risk on page 7.

Timestamp: 06 February 2024 09:57AM EST

06 February 2024

Equity

Key Changes		
(¥)	Previous	Current
Price Obj.	3,400	3,600
2024E Rev (m)	42,818,000	43,367,000
2025E Rev (m)	43,125,000	43,129,000
2026E Rev (m)	43,784,000	43,788,000
2024E EPS	311.79	332.79
2025E EPS	339.78	370.92
2026E EPS	350.02	385.56
2024E EBITDA (m)	6,913,000	7,146,000
2025E EBITDA (m)	7,506,000	8,071,000
2026E EBITDA (m)	7,685,000	8,326,000
2024E DPS	94	100

Kei Nihonyanagi >> Research Analyst BofAS Japan kei.nihonyanagi@bofa.com

Kentaro Hosoda >> Research Analyst BofAS Japan kentaro.hosoda@bofa.com

Stock Data

Price (Common / ADR)	3,135 JPY / 203.03 USD
Price Objective	3,600 JPY / 233.14 USD
Date Established	6-Feb-2024/ 6-Feb-2024
Investment Opinion	B-1-7 / A-1-7
52-Week Range	1,764-3,148 JPY
Market Value (mn)	45,018,600 JPY
Market Value (\$mn)	302,392 USD
Shares Outstanding (mn)	14,360.0
Average Daily Value (\$mn)	669.6 USD
Free Float	49.9%
BofA Ticker / Exchange	TOYOF / TYO
BofA Ticker / Exchange	TM / NYS
Bloomberg / Reuters	7203 JP / 7203.T
ROE (2024E)	15.2%
Net Dbt to Eqty (Mar-2023A)	74.7%

>> Employed by a non-US affiliate of BofAS and is not registered/qualified as a research analyst under the FINRA rules.

Refer to "Other Important Disclosures" for information on certain BofA Securities entities that take responsibility for the information herein in particular jurisdictions.

iQprofile[™] Toyota Motor (7203)

Key Income Statement Data	3/22A	3/23A	3/24E	3/25E	3/26E
(¥ Billions)	IFRS	IFRS	IFRS	IFRS	IFRS
Sales	31,379.5	37,154.3	43,367.0	43,129.0	43,788.0
% Change	15.3%	18.4%	16.7%	-0.5%	1.5%
Gross Profit	5,971.7	6,313.0	8,961.9	10,199.1	10,611.8
EBITDA	4,817.6	4,764.9	7,146.0	8,071.0	8,326.0
Operating Profit	2,995.7	2,725.0	5,021.0	5,895.0	6,098.0
% Change	36.3%	-9.0%	84.3%	17.4%	3.4%
Net Interest & Other Income	507.0	378.8	277.3	282.9	282.9
Pretax Income	3,990.5	3,668.7	6,104.8	6,958.8	7,193.1
% Change	36.1%	-8.1%	66.4%	14.0%	3.4%
Net Income	2,850.1	2,451.3	4,501.9	4,989.8	5,157.8
Key Cash Flow Statement Data					
Net Income from Cont Operations (GAAP)	2,850.1	2,451.3	4,501.9	4,989.8	5,157.8
Depreciation & Amortization	1,821.9	2,039.9	2,125.0	2,176.0	2,228.0
Change in Working Capital	22.1	236.6	38.4	(440.4)	(368.2)
Capital Expenditure	(3,484.2)	(3,357.6)	(3,775.0)	(3,851.0)	(3,928.0)
Free Cash Flow*	238.5	(402.5)	1,364.1	995.5	1,147.5
Share Issue / (Repurchase)	(404.7)	(431.1)	(200.0)	(200.0)	(200.0)
Cost of Dividends Paid	(761.6)	(813.0)	(1,352.8)	(1,493.2)	(1,551.8)
Key Balance Sheet Data					
Cash & Equivalents	6,113.7	7,517.0	6,698.0	8,726.0	10,891.8
Trade Receivables	10,324.2	11,865.9	11,711.2	11,776.5	11,911.8
Other Current Assets	7,284.5	7,076.9	7,266.8	7,226.9	7,337.3
Property, Plant & Equipment	12,326.6	12,634.0	13,237.0	13,852.0	14,480.0
Other Non-Current Assets	31,639.8	35,209.4	35,374.3	35,540.9	35,709.1
Total Assets	67,688.8	74,303.2	74,287.4	77,122.2	80,330.0
Short-Term Debt	11,187.8	12,305.6	9,721.3	9,721.3	9,721.3
Other Current Liabilities	10,654.3	11,654.1	11,396.8	11,044.9	10,953.4
Long-Term Debt	15,308.5	17,074.6	17,074.6	17,074.6	17,074.6
Other Non-Current Liabilities	3,383.3	4,004.6	4,004.6	4,004.6	4,004.6
Total Liabilities	40,534.0	45,039.0	42,197.3	41,845.5	41,754.0
Total Equity	27,154.8	29,264.2	32,090.1	35,276.7	38,576.0
Total Equity & Liabilities	67,688.8	74,303.2	74,287.4	77,122.2	80,330.0
Key Metrics					
iQmethod SM − Business Performance*					
Return On Capital Employed	4.4%	3.5%	6.5%	7.1%	7.0%
Return On Equity	11.5%	9.0%	15.2%	15.3%	14.4%
Operating Margin	9.5%	7.3%	11.6%	13.7%	13.9%
iQmethod [™] – Quality of Earnings*					
Cash Realization Ratio	1.3x	1.2x	1.1x	1.0x	1.0x
Asset Replacement Ratio	1.9x	1.6x	1.8x	1.8x	1.8x
Tax Rate (Reported)	28.0%	32.0%	25.0%	27.0%	27.0%
Net Debt-to-Equity Ratio	75.1%	74.7%	62.6%	51.2%	41.2%
Interest Cover	68.1x	21.8x	41.8x	51.5x	53.3x
* For full definitions of <i>IQ</i> method SM measures, see page 9.					

^{*} For full definitions of *IQmethod*SM measures, see page 9. Other GAAP denotes Japanese Accounting Standards.

Company Sector

Autos/Car Manufacturers

Company Description

One of the world's largest automakers. Contends with global leaders VW Group and GM in sales volume. Following 2008 financial crisis, has struggled with quality issues in the US and production cutbacks due to Japan's earthquake, but regained top global market share in 2012. US market is its traditional earnings driver, but recently starting to tap into emerging markets such as ASEAN and India. Highest domestic production rates of Japan's big three (Toyota, Nissan, Honda). Established in 1937.

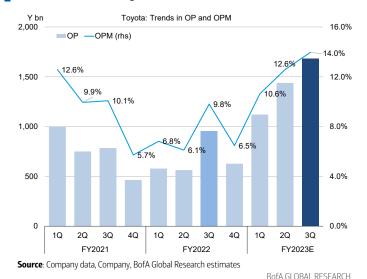
Investment Rationale

We rate Toyota Buy. We have high confidence in near-term earnings as the company has been able to minimize the impact of semiconductor shortages. We expect it to continue to post record-high profits from FY3/22 onwards. In the long term, amid calls for initiatives to promote decarbonization, we see Toyota as one of the rare companies that can contribute to decarbonization without relying solely on BEVs by utilizing its abundant technological capabilities.

Key Changes		
(US\$)	Previous	Current
Price Obj.	228.96	233.14
2024E EPS	20.94	22.35
2025E EPS	22.82	24.91
2026E EPS	23.51	25.90
2024E DPS	6.31	6.72

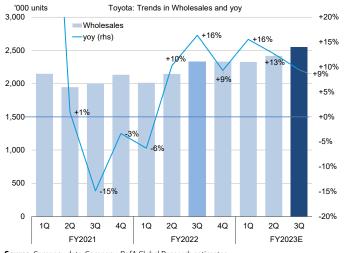
Exhibit 1: Toyota: Quarterly OP and OPM

OPM reached astonishing 14% in 3Q



DUIA GEODAL NESLAN

Exhibit 2: Toyota: Quarterly wholesale sales volume and YoY chg Full production fueled very high sales in 3Q assisted by buoyant HEV demand



Source: Company data, Company, BofA Global Research estimates

BofA GLOBAL RESEARCH

3Q earnings: OPM reached astonishing 14%

Toyota posted 3Q OP of ¥1.68tn (+76% YoY), well above our estimate (¥1.26tn) and the Bloomberg consensus (¥1.33tn). Given no one-offs were booked, this was an astonishing level. In addition to volume growth and forex, there were large contributions from improvement in mix on HEV sales growth, and repricing. The company said incentives were kept low in North America in particular.

However, the company was dubious about sustainability, noting that in 3Q the impact from chip shortages had dropped out and, with production at very high levels, the mix boost from rising HEV demand was a significant factor. Now, with the added factor of group company misconduct, optimum production levels require careful examination.

There was a decent performance in China in 3Q. China equitymethod income increased 46% YoY to ¥97.1bn as Toyota maintained market share on the back of healthier HEV demand than for other OEMs.

3Q shipments: Very high, boosted by full production

Wholesale sales reached 2.55mn units in 3Q (+9% YoY) with a quarterly record for shipments. We estimate that Toyota/Lexus retail sales including those of the China joint venture amounted to 2.74mn units (+11%).

Toyota commented that HEV demand was buoyant globally. In addition to North America and Europe, growing HEV demand in India has been a driver for company sales recently. The company's overall HEV sales ratio reached 35% in 3Q and FY3/24 sales volume is seen as 3.6mn units (+33% YoY). Toyota said it expects HEV sales to reach 5mn units in CY25.

However, the company said it intends to review its sustainable production and sales levels from 4Q onward in light of factors including group company misconduct. We think FY3/25 production could be up only slightly YoY.



Exhibit 3: Toyota Motor: New vs old BofAe and CoE, valuationsRevised guidance seems to be quite conservative on Daihatsu misconduct costs

Toyota Motor (7203)

		Sales		OP		Net Profit Be	Net Profit Before Tax		ofit	EPS	P/E	P/B	ROE
		JPY mn	yoy %	JPY mn	yoy %	JPY mn	yoy %	JPY mn	yoy %	JPY	Х	Х	%
Fiscal Year													
FY3/23	Actual	37,154,298	+18.4%	2,725,025	-9.0%	3,668,733	-8.1%	2,451,318	-14.0%	179.5	17.5	1.5	9.09
FY3/24	E New	43,367,000	+16.7%	5,021,000	+84.3%	6,104,800	+66.4%	4,501,900	+83.7%	332.8	9.4	1.4	15.29
	E Old	42,818,000	+15.2%	4,788,000	+75.7%	5,721,400	+56.0%	4,217,800	+72.1%	311.8	10.1	1.4	14.29
	IFIS E	44,019,764	+18.5%	4,703,440	+72.6%	5,911,800	+61.1%	4,212,520	+71.8%	305.5	10.3		
	CoE New	43,500,000	+17.1%	4,900,000	+79.8%	6,200,000	+69.0%	4,500,000	+83.6%	333.0	9.4		
	CoE Old	43,000,000	+15.7%	4,500,000	+65.1%	5,550,000	+51.3%	3,950,000	+61.1%	292.0	10.7		
FY3/25	E New	43,129,000	-0.5%	5,895,000	+17.4%	6,958,800	+14.0%	4,989,800	+10.8%	370.9	8.5	1.2	15.3%
	E Old	43,125,000	+0.7%	5,330,000	+11.3%	6,373,200	+11.4%	4,570,900	+8.4%	339.8	9.2	1.3	14.2%
	IFIS E	45,482,000	+3.3%	4,881,153	+3.8%	5,889,564	-0.4%	4,159,796	-1.3%	307.2	10.2		
FY3/26	E New	43,788,000	+1.5%	6,098,000	+3.4%	7,193,100	+3.4%	5,157,800	+3.4%	385.6	8.1	1.1	14.4%
	E Old	43,784,000	+1.5%	5,457,000	+2.4%	6,528,400	+2.4%	4,682,300	+2.4%	350.0	9.0	1.1	13.3%
	IFIS E	46,908,514	+3.1%	5,003,936	+2.5%	6,048,950	+2.7%	4,251,814	+2.2%	317.9	9.9		
First Half (Apr	-Sep)												
FY3/23	Actual	17,709,348	+14.4%	1,141,444	-34.7%	1,834,276	-14.4%	1,171,084	-23.2%				
FY3/24	Actual	21,981,617	+24.1%	2,559,294	+124.2%	3,521,525	+92.0%	2,589,428	+121.1%				
Second Half (0	Oct-Mar)												
FY3/23	Actual	19,444,950	+22.3%	1,583,581	+26.9%	1,834,457	-0.7%	1,280,234	-3.4%				
FY3/24	E New	21,385,383	+10.0%	2,461,706	+55.5%	2,583,275	+40.8%	1,912,472	+49.4%				
	E Old	20,836,383	+7.2%	2,228,706	+40.7%	2,199,875	+19.9%	1,628,372	+27.2%				
First Quarter (Apr-Jun)	, , , , , , , , , , , , , , , , , , ,											
FY3/23	Actual	8,491,116	+7.0%	578,655	-42.0%	1,021,748	-18.7%	736,820	-17.9%				
FY3/24	Actual	10,546,831	+24.2%	1,120,900	+93.7%	1,720,553	+68.4%	1,311,372	+78.0%				
Second Quart		.,,		, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,		7- 7-					
FY3/23	Actual	9,218,232	+22.2%	562,789	-25.0%	812,528	-8.4%	434,264	-30.7%				
FY3/24	Actual	11,434,786	+24.0%	1,438,394	+155.6%	1,800,972	+121.7%	1,278,056	+194.3%				
Third Quarter		, .2 .,, 00	= /9	.,, .		.,,	/9	.,,	70				
FY3/23	Actual	9,754,685	+25.3%	956,652	+22.0%	1,034,998	-5.4%	727,942	-8.1%				
FY3/24	Actual	12,041,103	+23.4%	1,680,944	+75.7%	1,835,540	+77.3%	1,357,814	+86.5%				
115/21	E Old	11,404,000	+16.9%	1,264,000	+32.1%	1,509,600	+45.9%	1,067,600	+46.7%				
Fourth Quarte		11,101,300	10.5 /0	1,201,000	52.170	1,505,000	15.570	1,007,000	10.7 /0				
FY3/23	Actual	9,690,265	+19.4%	626,929	+35.2%	799,459	+6.2%	552,292	+3.4%				
FY3/24	E New	9,344,280	-3.6%	780,762	+24.5%	747,735	-6.5%	554,658	+0.4%				
113/27	E Old	9,432,383	-2.7%	964,706	+53.9%	690,275	-13.7%	560,772	+1.5%				
	L Olu	J,+JZ,J0J	-2.7-/0	JU 4 ,/UU	יטייל.כני	030,273	-13.770	300,772	الآور.۱۰				

Source : Company data, IFIS consensus, company and BofA Global Research estimates

BofA GLOBAL RESEARCH



Exhibit 4: Toyota Motor: Earnings at a glanceAssume continued profit growth on mix improvement and cost cuts in FY3/25

	2023/3	2024/3E	2025/3E	2026/3E	24/3	CoE	202	23/3			2	024/3E			
¥ bn, ¥, %					New	Old	1H	2H	1Q	2Q	1H	3Q	4QE	2HE	4Q CoE
Sales	37,154	43,367	43,129	43,788	43,500	43,000	17,709	19,445	10,547	11,435	21,982	12,041	9,344	21,385	9,477
Cost of sales	30,841	34,405	32,930	33,176			14,894	15,947	8,484	9,065	17,549	9,356	7,501	16,856	
Gross profit	6,313	8,962	10,199	10,612			2,815	3,498	2,063	2,370	4,433	2,685	1,844	4,529	
SG&A expenses	3,588	3,941	4,304	4,514			1,673	1,915	942	932	1,874	1,004	1,063	2,067	
Operating profit	2,725	5,021	5,895	6,098	4,900	4,500	1,141	1,584	1,121	1,438	2,559	1,681	781	2,462	660
Equity method income/loss	643	807	781	812	740	740	305	338	193	185	379	218	210	428	144
Pretax profit	3,669	6,105	6,959	7,193	6,200	5,550	1,834	1,834	1,721	1,801	3,522	1,836	748	2,583	843
Corporate tax, etc.	1,176	1,526	1,879	1,942			615	561	394	480	874	451	201	652	
Minority shareholder interest	42	77	90	93			48	-7	16	43	58	26	-8	19	
Net profit	2,451	4,502	4,990	5,158	4,500	3,950	1,171	1,280	1,311	1,278	2,589	1,358	555	1,912	553
De D aymanasa	1,242	1,242	1 207	1,292	1 240	1,240	C21	621	205	314	609	200	334	633	222
R&D expenses	1,185		1,267	1,292	1,240		621 574		295	303	602	299 313	330	642	332
Depreciation & amortization		1,244	1,269	, -	1,260	1,260	682	611	298						346
Capex	1,606	1,847	1,884	1,922	1,970	1,970	682	924	367	443	809	413	625	1,038	748
Sales ratios															
Gross profit	17.0%	20.7%	23.6%	24.2%			15.9%	18.0%	19.6%	20.7%	20.2%	22.3%	19.7%	21.2%	
Operating profit	7.3%	11.6%	13.7%	13.9%	11.3%	10.5%	6.4%	8.1%	10.6%	12.6%	11.6%	14.0%	8.4%	11.5%	7.0%
Net profit	6.6%	10.4%	11.6%	11.8%	10.3%	9.2%	6.6%	6.6%	12.4%	11.2%	11.8%	11.3%	5.9%	8.9%	5.8%
Tax rate	32.0%	25.0%	27.0%	27.0%			33.5%	30.6%	22.9%	26.7%	24.8%	24.6%	26.8%	25.2%	
YoY change															
Sales	+18.4%	+16.7%	-0.5%	+1.5%	+17.1%	+15.7%	+14.4%	+22.3%	+24.2%	+24.0%	+24 1%	+23.4%	-3.6%	+10.0%	-2.2%
Operating profit	-9.0%	+84.3%	+17.4%	+3.4%	+79.8%		-34.7%		,	+155.6%				+55.5%	+5.2%
Net profit	-14.0%	+83.7%	+10.8%	+3.4%		-	-23.2%	-3.4%		+194.3%				+49.4%	+0.1%
							<u> </u>								
Forex assumptions	2023/3	2024/3E	2025/3E	2026/3E	New	Old	1H	2H	1Q	2Q	1H	3Q	4QE	2HE	4Q CoE
¥/USD	135.5	143.7	145.0	145.0	143.0	141.0	134.1	136.8	137.5	144.6	141.1	147.8	145.0	146.4	142.1
¥/EUR	140.9	155.3	155.0	155.0	154.0	152.0	138.7	143.1	149.7	157.3	153.5		155.0	157.0	150.0
OP variance analysis	2023/3	2024/3E	2025/3E	2026/3E	New	Old	1H	2H	1Q	2Q	1H	3Q	4QE	2HE	4Q CoE
Sales impact (including finance biz)		+1,927	+385	+100	+1,935		+130	+550	+600	+690	+1,290	+700	-63	+637	-55
Measures to reduce input costs	-1,290	-44	+387	+313	-50	-50	-650	-640	-155	+45	-110	+45	+21	+66	+15
Lower input costs	+255	+361	+309	+313	+360	+360	+115	+140	+75	+130	+205	+100	+56	+156	+55
Impact of raw material prices	-1,545	-405	+78	0	-260	-410	-765	-780	-230	-85	-315	-55	-35	-90	+110
Forex impact	+1,280	+541	+115	0	+540	+305	+565	+715	+115	+145	+260		+161	+281	+160
Changes in fixed costs	-525	-353	-363	-210	-445	-370	-310	-215	-70	-150	-220		-53	-133	-145
Other	-416	+225	+350	0	+45	+235	-341	-75	+52	+146	+198	-61	+88	+27	-92
Total	-271	+2,296	+874	+203	+2,025	+1,775	-606	+335	+542	+876	+1,418	+724	+154	+878	-117
Source: Company data, Company, BofA (Global Reseau	rch estimates	·		_					·	·	·		·	

Source: Company data, Company, BofA Global Research estimates

BofA GLOBAL RESEARCH



Exhibit 5: Toyota Motor: Consolidated sales volume and Toyota brand retail sales volumeStrengthening foothold is priority from 4Q in light of group company irregularities

Decreases total	Consolidated sales volume ('000s)	2023/3	2024/3E	2025/3E	2026/3E	New	Old	1H	2H	1Q	2Q	1H	3Q	4QE	2HE	4Q CoE
North America	Japan	2,069	2,115	2,211	2,237	2,120		869	1,200	532		1,072		485	1,043	490
Europe 1,030 1,184 1,118 1,141 1,170 1,150 479 531 286 271 557 327 300 627 288 6348 484 1,751 1,760 1,	Overseas total	6,753	7,364	7,253	7,328	7,330	7,280			1,794	1,878	3,672	1,993	1,699	3,692	1,665
Ascal 1,751 1,760 1,594 1,775 1,760 1,594 1,775 1,760 1,760 1,770	North America	2,407	2,763	2,881	2,923	2,760	2,730	1,245	1,162	682	703	1,385	776	602	1,378	599
South/Central America	Europe	1,030	1,184	1,118	1,141	1,170	1,150	479	551	286	271	557	327	300	627	286
Decania 7.65 7.99 7.76 7.76 310 31	Asia	1,751	1,760	1,694	1,757	1,760	1,760	817	934	417	478	895	480	385	865	385
Africa	South/Central America	509	489	474	450	480	480	251	258	128	126	254	120	115	235	106
Middle East 559 593 563 535 580 580 580 580 580 580 580 580 580 58	Oceania	265	299	276	276	310	310	142	123	76	87	163	80	56	136	67
Triang Consolidated sales volume (Yor change) 2023/3 2024/3E 2025/3E 2025/3E 2026/3E 2026/	Africa	226	268	239	239	270	270	97	129	59	62	121	55	92	147	94
Consolidated sales volume (YoY change) 2023/3 2024/3E 2025/3E 0205/3E New Old 1H 2H 2H 3H 3H 3D 4QE 2HE 4Q CoE paper	Middle East	559	593	563	535	580	580	256	303	143	149	292	151	150	301	137
Sepan 48% 42% 45% 45% 45% 42% 412% 42% 42% 42% 42% 43% 43% 43% 41% 4	Total (Toyota consolidated)	8,822	9,479	9,464	9,565	9,450	9,600	4,159	4,663	2,326	2,418	4,744	2,551	2,184	4,735	2,155
Oberseas total	Consolidated sales volume (YoY change)	2023/3	2024/3E	2025/3E	2026/3E	New	Old		2H	1Q	2Q	1H	3Q	4QE	2HE	4Q CoE
North America	Japan	+8%	+2%	+5%	+1%	+2%	+12%	-8%	+23%	+32%	+16%	+23%	+5%	-27%	-13%	-27%
Europe	Overseas total	+7%	+9%	-2%	+1%	+9%	+8%	+5%	+10%	+11%	+12%	+12%	+11%	+2%	+7%	+0%
Asia	North America	+1%	+15%	+4%	+1%	+15%	+13%	-3%	+4%	+7%	+15%	+11%	+28%	+8%	+19%	+8%
South/Central America 1896 -496 -396 -596 -696 -696 -696 -696 -4996 -1796 -1796 -1796 -1796 -1796 -1796 -2996 -279	Europe	+1%	+15%	-6%	+2%	+14%	+12%	-6%	+9%	+15%	+17%	+16%	+18%	+10%	+14%	+4%
Oceania -6% +13% -8% 0% +17% +17% +6% -8% 0% +32% +15% +18% +22% +11% 22% +15% +18% +22% +11% +22% +17% +18% +28% +19% +18% +28% +19% +19% +28% +19% +19% +19% +19% +19% +19% +19% +19% +19% +28% +28% +28% +6% +29% +5% +14% +49% +49% +38% +10% +3% +38% +10% +18% +14% -49% +6% +29% +5% +6% +9% +6% +19% +18% +18% +18% +29% +19% +29% -6% Total +7% +7% +19% +29% +19% +19% +29% +19% +29% -6% +19% +19% +29% +19% +29% +29% +19% +29% +29% +19% +29% <	Asia	+13%	+1%	-4%	+4%	+1%	+1%	+16%	+12%	+16%	+5%	+10%	+1%	-16%	-7%	-16%
Africa	South/Central America	+18%	-4%	-3%	-5%	-6%	-6%	+19%	+17%	+4%	-2%	+1%	-17%	+1%	-9%	-7%
Middle East	Oceania	-6%	+13%	-8%	0%	+17%	+17%	-4%	-8%	0%	+32%	+15%	+18%	+2%	+11%	+22%
Total +7% +7% -9% +9% +9% +9% +9% +19% 41% 41% 41% 49% 49% 42% 41% 40 20 41% 41% 41% 41% 49% 49% 42% 42% 40 20 41% 41% 41% 49% 42% 42% 41% 40 20 11 41% 41% 41% 49% 42% 410 41% 41% 41% 42% 42% 41% 42% 41% 42% 42% 41% 42% 41% 42% 41%	Africa	+3%	+19%	-11%	0%	+19%	+19%	+1%	+5%	+64%	+2%	+25%	-19%	+51%	+14%	+54%
Toyota brand retail sales (1000s) 2023/3 2024/3E 2025/3E 2026/3E New Old 1H 2H 1Q 2Q 1H 3Q 4QE 2HE 4Q COE lapan 1.407 1.605 1.596 1.591 9.891 816 384 406 790 389 426 815 Overseas total 8.203 8.786 9.031 9.166 4.152 4.051 2.154 2.28 4.32 2.347 2.057 4.04 USA 2.064 2.282 2.479 2.520 1.057 1.006 569 590 1.159 620 503 1.123 Burope 1.044 1.097 1.118 1.141 1 507 537 269 274 543 305 249 554 Asia 3.276 3.389 3.496 3.618 1.682 1.593 8257 1.688 904 807 1.710 China 1.876 1.951 2.048	Middle East	+36%	+6%	-5%	-5%	+4%	+4%	+33%	+38%	+10%	+18%	+14%	-4%	+3%	-1%	-6%
Agama	Total	+7%	+7%	-0%	+1%	+7%	+9%	+2%	+13%	+16%	+13%	+14%	+9%	-6%	+2%	-8%
Overseas total 8,203 8,786 9,031 9,166 4,152 4,051 2,154 2,228 2,387 2,057 4,404 North America 2,400 2,682 2,881 2,923 1,236 1,164 665 687 1,353 720 610 1,330 USA 2,064 2,282 2,479 2,520 1,057 1,006 569 590 1,159 620 503 1,123 Asia 3,276 3,399 3,496 3,618 1,682 1,593 832 857 1,688 904 807 1,710 China 1,876 1,951 2,048 2,110 1,001 875 499 505 1,005 523 423 946 South/Central America 483 499 474 450 241 242 124 124 123 247 123 128 251 Oceania 264 291 276 276 144 120	Toyota brand retail sales ('000s)	2023/3	2024/3E	2025/3E	2026/3E	New	Old	1H	2H	1Q	2Q	1H	3Q	4QE	2HE	4Q CoE
North America	Japan	1,407	1,605	1,596	1,591			591	816	384	406	790	389	426	815	
USA	Overseas total	8,203	8,786	9,031	9,166			4,152	4,051	2,154	2,228	4,382	2,347	2,057	4,404	
Europe 1,044 1,097 1,118 1,141 507 537 269 274 543 305 249 554 Asia 3,276 3,399 3,496 3,618 1,876 1,951 2,048 2,110 1,001 875 499 505 1,005 523 423 946 South/Central America 483 499 474 450 241 242 124 123 247 123 128 251 Oceania 264 291 276 276 144 120 70 77 147 77 66 143 Africa 222 244 239 239 99 122 59 62 121 66 57 123 Middle East 514 575 547 519 242 272 134 149 283 152 140 293 Other regions (adjusted figures) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	North America	2,400	2,682	2,881	2,923			1,236	1,164	665	687	1,353	720	610	1,330	
Asia 3,276 3,399 3,496 3,618 1,876 1,971 2,048 2,110 1,001 875 499 505 1,005 523 423 946 500th/Central America 483 499 474 450 241 242 124 123 247 123 128 251 0ceania 264 291 276 276 144 120 70 77 147 77 66 143 467 147 147 147 147 148 148 149 148 149 148 149 148 149 148 149 148 149 148 149 148 149 148 149 148 149 148 149 149 149 149 149 149 149 149 149 149	USA	2,064	2,282	2,479	2,520			1,057	1,006	569	590	1,159	620	503	1,123	
China 1,876 1,951 2,048 2,110 1,001 875 499 505 1,005 523 423 946 South/Central America 483 499 474 450 241 242 124 123 247 123 128 251 Oceania 264 291 276 276 144 120 70 77 147 77 66 143 Africa 222 244 239 239 99 122 59 62 121 66 57 123 Middle East 514 575 547 519 242 272 134 149 283 152 140 293 Other regions (adjusted figures) 0	Europe	1,044	1,097	1,118	1,141			507	537	269	274	543	305	249	554	
South/Central America	Asia	3,276	3,399	3,496	3,618			1,682	1,593	832	857	1,688	904	807	1,710	
Oceania 264 291 276 276 144 120 70 77 147 77 66 143 Africa 222 244 239 239 99 122 59 62 121 66 57 123 Middle East 514 575 547 519 242 272 134 149 283 152 140 293 Other regions (adjusted figures) 0	China	1,876	1,951	2,048	2,110			1,001	875	499	505	1,005	523	423	946	
Africa 222 244 239 239 99 122 59 62 121 66 57 123 Middle East 514 575 547 519 242 272 134 149 283 152 140 293 Other regions (adjusted figures) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	South/Central America							241						128		
Middle East 514 575 547 519 242 272 134 149 283 152 140 293 10th regions (adjusted figures) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Oceania															
Other regions (adjusted figures) O	Africa															
Total 9,610 10,391 10,627 10,757 10,400 10,400 4,742 4,868 2,538 2,634 5,172 2,736 2,483 5,219 2,492	Middle East															
Toyota brand retail sales (yoy) 2023/3 2024/3E 2025/3E 2026/3E New Old 1H 2H 1Q 2Q 1H 3Q 4QE 2HE 4Q CoE Japan +1% +14% -1% -0% -0% -21% +26% +35% +32% +34% +19% -13% -0% Overseas total +1% +7% +33% +2% -15% +2% +5% +6% +6% +10% +7% +9% North America -7% +12% +7% +11% -2% +5% +14% +9% +17% +11% +1% +1% +1% +9% +17% +11% +1% +1% +14% +9% +17% +11% +1%	Other regions (adjusted figures)							_								
Apan	Total			<u> </u>												_
Overseas total +1% +7% +3% +2% +0% +2% +6% +6% +10% +9% +9% North America -7% +12% +7% +1% -15% +2% +5% +14% +14% +9% +17% +11% +14% Europe +2% +5% +2% +2% -8% +14% +14% +7% +19% -12% +3% Asia +4% +4% +3% +4% +14% -6% +5% -4% +0% +4% +11% +7% South/Central America +19% +3% -5% -5% -5% +22% +15% +2% +3% +2% -8% +18% +4% Oceania -4% +10% -5% 0% -1% -7% -8% +14% +2% +15% +2% +15% +2% +15% +2% +15% +2% +15% +2% +15% +2% +15% +2% <td>Toyota brand retail sales (yoy)</td> <td></td> <td></td> <td></td> <td></td> <td>New</td> <td>Old</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4Q CoE</td>	Toyota brand retail sales (yoy)					New	Old									4Q CoE
North America	Japan	+1%		-1%												
Europe +2% +5% +2% +2% +2% +4% +14% +14% +7% +19% -12% +3% Asia +44% +44% +3% +44% +4% +3% +44% +4% +5% +5% -4% +0% +44% +11% +7% South/Central America +19% +3% -5% -5% +22% +15% +2% +3% +2% -8% +18% +4% Oceania -4% +10% -5% 0% -1% -7% -8% +14% +2% +15% +2% +15% +24% +19% Africa -1% +10% -2% 0% -5% +3% +23% +21% +22% +6% -5% +1% Middle East +19% +12% -5% -5% -5% +11% +28% +9% +25% +17% +17% -1% +8% Other regions	Overseas total															
Asia	North America			+7%							+14%			+11%	+14%	
South/Central America +19% +3% -5% -5% +22% +15% +2% +3% +2% -8% +18% +4% Oceania -4% +10% -5% 0% -1% -7% -8% +14% +2% +15% +24% +19% Africa -1% +10% -2% 0% -5% +3% +23% +21% +22% +6% -5% +1% Middle East +19% +12% -5% -5% -5% +11% +28% +9% +25% +17% +17% -1% +8% Other regions -	Europe															
Oceania -4% +10% -5% 0% -1% -7% -8% +14% +2% +15% +24% +19% Africa -1% +10% -2% 0% -5% +3% +23% +21% +22% +6% -5% +1% Middle East +19% +12% -5% -5% -5% +11% +28% +9% +25% +17% +17% -1% +8% Other regions -<	Asia															
Africa -1% +10% -2% 0% -5% +3% +23% +21% +22% +6% -5% +1% Middle East +19% +12% -5% -5% -5% +11% +28% +9% +25% +17% +17% -1% +8% Other regions -	South/Central America														.,.	
Middle East +19% +12% -5% -5% +11% +28% +9% +25% +17% +17% -1% +8% Other regions -	Oceania															
Other regions	Africa															
	Middle East	+19%	+12%	-5%	-5%			+11%	+28%	+9%	+25%	+17%	+17%	-1%	+8%	
Total +1% +8% +2% +1% +8% +8% -3% +5% +8% +10% +9% +11% +3% +7% +3%	Other regions	-	=		=	-	-	-	-	_	-	-	-	-	-	-
	Total	+1%	+8%	+2%	+1%	+8%	+8%	-3%	+5%	+8%	+10%	+9%	+11%	+3%	+7%	+3%

Source: Company data, Company, BofA Global Research estimates

BofA GLOBAL RESEARCH



Price objective basis & risk

Toyota Motor (7203 / TOYOF / TM)

Our 12-month PO for Toyota is ¥3,600 (ADR: \$233.14). We calculate a fair-value EV/EBITDA multiple of 3.9x by taking the FY3/17-3/19 average EV/EBITDA of 3.9x (ex finco), applying a 15% decarbonization premium, 5% for potential action in response to share price weakness, and a 10% top-line visibility discount (net +10%). We calculate fair-value market cap (ex finco) by applying this to our FY3/25 EBITDA estimate of ¥7.6tn (ex finco). We then add back ¥5.0tn in financial services shareholders' equity to derive total market cap. Risks are forex swings, a prolonged semiconductor shortage, and an increase in material costs.

Analyst Certification

I, Kei Nihonyanagi, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

Special Disclosures

BofA Securities is currently acting as financial advisor to Daimler Truck Holding AG in connection with the proposed business combination between its subsidiary Mitsubishi Fuso Truck and Bus Corporation and Hino Motors, Ltd., a subsidiary of Toyota Motor Corporation, which was announced on May 30, 2023. The proposed transaction is subject to approval by shareholders of Hino Motors, Ltd. This research report is not intended to (1) provide voting advice, (2) serve as an endorsement of the proposed transaction, or (3) result in the procurement, withholding or revocation of a proxy.

APR - Autos Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	Aima Technology	XIHBF	603529 CH	Joey Yang, CFA
	Bajaj Auto	XBJBF	BJAUT IN	Gunjan Prithyani
	BYD	BYDDF	1211 HK	Ming Hsun Lee, CFA
	BYD	XYMPF	002594 CH	Ming Hsun Lee, CFA
	BYD	BYDDY	BYDDY US	Ming Hsun Lee, CFA
	CATL	XMOQF	300750 CH	Ming Hsun Lee, CFA
	DENSO	DNZOF	6902 JP	Kei Nihonyanagi
	EVE	XEVEF	300014 CH	Ming Hsun Lee, CFA
	Fuyao Glass	XFGIF	600660 CH	Edward Leung, CFA
	Fuyao Glass	FIGIF	3606 HK	Edward Leung, CFA
	Great Wall Motor	GWLLF	2333 HK	Ming Hsun Lee, CFA
	GS Yuasa	GYUAF	6674 JP	Kentaro Hosoda
	Guangzhou Automobile Group	GNZUF	2238 HK	Ming Hsun Lee, CFA
	Hankook Tire	XHTRF	161390 KS	KJ Hwang
	Hero Motocorp	HRHDF	HMCL IN	Gunjan Prithyani
	Hesai	HSAI	HSAI US	Jessie Lo
	HL Mando	XMADF	204320 KS	KJ Hwang
	Honda Motor	HMC	HMC US	Kei Nihonyanagi
	Honda Motor	HNDAF	7267 JP	Kei Nihonyanagi
	Huayu	XHASF	600741 CH	Jessie Lo
	Hyundai Motor	HYMLF	005380 KS	KJ Hwang
	Isuzu Motors	ISUZF	7202 JP	Kei Nihonyanagi
	Joyson	XQMWF	600699 CH	Jessie Lo
	Leapmotor	XZSSF	9863 HK	Ming Hsun Lee, CFA
	Li Auto	Ц	LIUS	Ming Hsun Lee, CFA
	Li Auto	LAAOF	2015 HK	Ming Hsun Lee, CFA
	Maruti	MUDGF	MSIL IN	Gunjan Prithyani
	Mazda Motor	MZDAF	7261 JP	Kei Nihonyanagi



APR - Autos Coverage Cluster

nvestment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
	Minth	MNTHF	425 HK	Jessie Lo
	Ningbo Tuopu	XNCGF	601689 CH	Joey Yang, CFA
	Nissan Motor	NSANF	7201 JP	Kei Nihonyanagi
	Nissan Motor	NSANY	NSANY US	Kei Nihonyanagi
	PARK24	PKCOF	4666 JP	Kei Nihonyanagi
	SAMIL (Motherson International)	XMSUF	MOTHERSO IN	Gunjan Prithyani
	Shenzhen Kedali	XWCSF	002850 CH	Jessie Lo
	Shuanghuan Driveline	XZSHF	002472 CH	Jessie Lo
	Sumitomo Rubber Industries	SMTUF	5110 JP	Kentaro Hosoda
	Suzuki Motor	SZKMF	7269 JP	Kei Nihonyanagi
	Tata Motors	XTTSF	TTMT IN	Gunjan Prithyani
	Toyo Tire	TOTTF	5105 JP	Kentaro Hosoda
	Toyota Motor	TOYOF	7203 JP	Kei Nihonyanagi
	Toyota Motor	TM	TM US	Kei Nihonyanagi
	Wencan	XSCDF	603348 CH	
				Joey Yang, CFA
	Wuxi Lead	XZSRF	300450 CH	Ming Hsun Lee, CFA
	XPeng Inc	XPEV	XPEV US	Ming Hsun Lee, CFA
	XPeng Inc.	XPNGF	9868 HK	Ming Hsun Lee, CFA
	Yadea	YADGF	1585 HK	Joey Yang, CFA
	Yunnan Energy	XLGFF	002812 CH	Jessie Lo
	Zhejiang Sanhua	XZSIF	002050 CH	Jessie Lo
	Zhongsheng Auto	ZHSHF	881 HK	Joey Yang, CFA
UTRAL				
:UIRAL		ACEVE	7250 ID	
	Aisin	ASEKF	7259 JP	Kei Nihonyanagi
	Ashok Leyland	XDBVF	AL IN	Gunjan Prithyani
	Bridgestone	BRDCF	5108 JP	Kei Nihonyanagi
	Bridgestone	BRDCY	BRDCY US	Kei Nihonyanagi
	CALB	XCLSF	3931 HK	Ming Hsun Lee, CFA
	Dong Feng	DNFGF	489 HK	Ming Hsun Lee, CFA
	Eicher Motors	XEIMF	EIM IN	Gunjan Prithyani
	Hino Motors	HINOF	7205 JP	Kei Nihonyanagi
	Hyundai Mobis	HYPLF	012330 KS	KJ Hwang
	Kia Corp	KIMTF	000270 KS	KJ Hwang
	Mahindra & Mahindra (M&M)	XKQRF	MM IN	Gunjan Prithyani
		CMEIF	1268 HK	
	MeiDong Auto			Joey Yang, CFA
	Motherson Sumi Wiring	XMWDF	MSUMI IN	Gunjan Prithyani
	NIO	NIO	NIO US	Ming Hsun Lee, CFA
	NIO	NIOIF	9866 HK	Ming Hsun Lee, CFA
	NIO	XLTWF	NIO SP	Ming Hsun Lee, CFA
	Shenzhen Senior	XHYRF	300568 CH	Jessie Lo
	Subaru Corp	FUJHF	7270 JP	Kei Nihonyanagi
	Subaru Corp	FUJHY	FUJHY US	Kei Nihonyanagi
	Toyota Industries Corporation	TYIDF	6201 JP	Kentaro Hosoda
	Toyota Industries Corporation	TYIDY	TYIDY US	Kentaro Hosoda
	TVS Motors	XFKMF	TVSLIN	Gunjan Prithyani
	Yokohama Rubber	YORUF	5101 JP	Kentaro Hosoda
	Yongda	CYYHF	3669 HK	Joey Yang, CFA
	· oneua	CIIIII	20021117	Joey Turis, CLA
NDERPERFORM				
	Astra International	PTAIF	ASII IJ	Paul Dewberry
	BAIC Motor	BMCLF	1958 HK	Ming Hsun Lee, CFA
	Bharat Forge	XUUVF	BHFC IN	Gunjan Prithyani
	China Grand Auto	XMURF	600297 CH	Joey Yang, CFA
	Desay SV	XGDFF	002920 CH	Jessie Lo
	Escorts Kubota	XSCOF	ESCORTS IN	Gunjan Prithyani
	GAC	XGNHF	601238 CH	Ming Hsun Lee, CFA
	Great Wall Motor	XGWMF	601633 CH	Ming Hsun Lee, CFA
	Hyundai Wia	XWHYF	011210 KS	KJ Hwang
	Mitsubishi Motors	MMTOF	7211 JP	Kei Nihonyanagi
	Nextage	NXAGF	3186 JP	Kentaro Hosoda
	Nexteer	NTXVF	1316 HK	Jessie Lo
	Putailai	XVHGF	603659 CH	Jessie Lo
	SAIC Motor	XZNJF	600104 CH	Ming Hsun Lee, CFA
	Sona Comstar	XBNXF	SONACOMS IN	Gunjan Prithyani



APR - Autos Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
	Yamaha Motor	YAMHF	7272 JP	Kei Nihonyanagi
RVW				
	Geely	GELYF	175 HK	Ming Hsun Lee, CFA

IQmethod[™] Measures Definitions

Business Performance Return On Capital Employed	Numerator NOPAT = (EBIT + Interest Income) × (1 — Tax Rate) + Goodwill Amortization	Denominator Total Assets – Current Liabilities + ST Debt + Accumulated Goodwill Amortization
Return On Equity	Net Income	Shareholders' Equity
Operating Margin	Operating Profit	Sales
Earnings Growth	Expected 5 Year CAGR From Latest Actual	N/A
Free Cash Flow	Cash Flow From Operations — Total Capex	N/A
Quality of Earnings	Numerator	Denominator
Cash Realization Ratio	Cash Flow From Operations	Net Income
Asset Replacement Ratio	Capex	Depreciation
Tax Rate	Tax Charge	Pre-Tax Income
Net Debt-To-Equity Ratio	Net Debt = Total Debt — Cash & Equivalents	Total Equity
Interest Cover	EBIT	Interest Expense
Valuation Toolkit	Numerator	Denominator
Price / Earnings Ratio	Current Share Price	Diluted Earnings Per Share (Basis As Specified)
Price / Book Value	Current Share Price	Shareholders' Equity / Current Basic Shares
Dividend Yield	Annualised Declared Cash Dividend	Current Share Price
Free Cash Flow Yield	Cash Flow From Operations – Total Capex	Market Cap = Current Share Price × Current Basic Shares
Enterprise Value / Sales	EV = Current Share Price × Current Shares + Minority Equity + Net Debt + Other LT Liabilities	Sales

EV / EBITDA Enterprise Value Basic EBIT + Depreciation + Amortization

Memethod 3*is the set of BofA Global Research standard measures that serve to maintain global consistency under three broad headings: Business Performance, Quality of Earnings, and validations. The key features of iQmethod are: A consistently structured, detailed, and transparent methodology. Guidelines to maximize the effectiveness of the comparative valuation process, and to identify some common pitfalls.

Relatabase is our real-time global research database that is sourced directly from our equity analysts' earnings models and includes forecasted as well as historical data for income statements, balance sheets, and cash flow statements for companies covered by BofA Global Research.

IQprofile M, IQmethod are service marks of Bank of America Corporation. IQdatabase is a registered service mark of Bank of America Corporation.



Disclosures

Important Disclosures

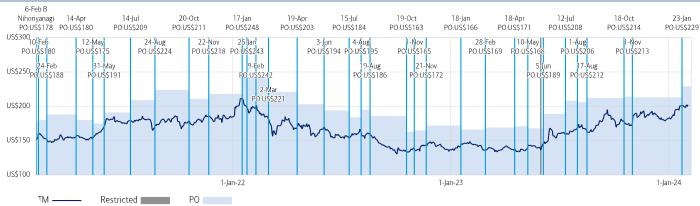
Toyota Motor (TOYOF) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Toyota Motor (TM) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Equity Investment Rating Distribution: Autos Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	67	55.83%	Buy	39	58.21%
Hold	30	25.00%	Hold	15	50.00%
Sell	23	19.17%	Sell	12	52.17%

Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

R1 Issuers that were investment banking clients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold, and a stock rated Underperform is included as a Sell.



FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. VOLATILITY RISK RATINGS, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. INVESTMENT RATINGS reflect the analyst's assessment of both a stock's absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). Our investment ratings are: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. An investment rating of 6 (No Rating) indicates that a stock is no longer trading on the basis of fundamentals. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R2}

 Buy
 ≥ 10%
 ≤ 70%

 Neutral
 ≥ 0%
 ≤ 30%

 Underperform
 N/A
 ≥ 20%

INCOME RATINGS, indicators of potential cash dividends, are: 7 - same/higher (dividend considered to be secure), 8 - same/lower (dividend not considered to be secure) and 9 - pays no cash dividend. Coverage Cluster is comprised of stocks covered by a single analyst or two or more analysts sharing a common industry, sector, region or other classification(s). A stock's coverage cluster is included in the most recent BofA Global Research report referencing the stock.

Price Charts for the securities referenced in this research report are available on the Price Charts website, or call 1-800-MERRILL to have them mailed.

BofAS or one of its affiliates acts as a market maker for the equity securities recommended in the report: Toyota Motor.

BofAS or an affiliate was a manager of a public offering of securities of this issuer within the last 12 months. Toyota Motor.

The issuer is or was, within the last 12 months, an investment banking client of BofAS and/or one or more of its affiliates: Toyota Motor.

BofAS or an affiliate has received compensation from the issuer for non-investment banking services or products within the past 12 months: Toyota Motor.

The issuer is or was, within the last 12 months, a non-securities business client of BofAS and/or one or more of its affiliates: Toyota Motor.

BofAS or an affiliate has received compensation for investment banking services from this issuer within the past 12 months: Toyota Motor.

BofAS or an affiliate expects to receive or intends to seek compensation for investment banking services from this issuer or an affiliate of the issuer within the next three months: Toyota Motor.

BofAS or one of its affiliates is willing to sell to, or buy from, clients the common equity of the issuer on a principal basis: Toyota Motor.

The issuer is or was, within the last 12 months, a securities business client (non-investment banking) of BofAS and/or one or more of its affiliates. Toyota Motor.

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.

Other Important Disclosures

From time to time research analysts conduct site visits of covered issuers. BofA Global Research policies prohibit research analysts from accepting payment or reimbursement for travel expenses from the issuer for such visits.

Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments. Refer to BofA Global Research policies relating to conflicts of interest.

"BofA Securities" includes BofA Securities, Inc. ("BofAS") and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. "BofA Securities" is a global brand for BofA Global Research.

Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofaml.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI; BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch (Hong Kong): Merrill (Hong Ko (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Mexico): Merrill Ly de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (Israel) (Israel): Merrill Lynch (Israel): Merr Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has



R2 Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information prepared and issued by Merrill Lynch (DIFC) is done so in accordance with the requirements of the DFSA conduct of business rules. BofA Europe (Frankfurt) distributes this information in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securities entities, including BofA Europe and BofASE (France), may outsource/delegate the marketing and/or provision of certain research services or aspects of research services to other branches or members of the BofA Securities group. You may be contacted by a different BofA Securities entity acting for and on behalf of your service provider where permitted by applicable law. This does no

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities. This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

This report may contain a short-term trading idea or recommendation, which highlights a specific near-term catalyst or event impacting the issuer or the market that is anticipated to have a short-term price impact on the equity securities of the issuer. Short-term trading ideas and recommendations are different from and do not affect a stock's fundamental equity rating, which reflects both a longer term total return expectation and attractiveness for investment relative to other stocks within its Coverage Cluster. Short-term trading ideas and recommendations may be more or less positive than a stock's fundamental equity rating.

BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned herein. Investors in such securities and instruments, including ADRs, effectively assume currency risk.

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information. In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

Copyright and General Information:

Copyright 2024 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities. Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public inform

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.



The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Subject to the quiet period applicable under laws of the various jurisdictions in which we distribute research reports and other legal and BofA Securities policy-related restrictions on the publication of research reports, fundamental equity reports are produced on a regular basis as necessary to keep the investment recommendation current.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies. Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.

