

Industry Status: Automotive

1 week 12/06/23 to 12/13/23								
9Weakest	8VWeak	7Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest
.	.	.	.	62 AUTO	.	.	.	.
.	.	.	.	17 Major Mfrs	.	.	.	.
.	.	.	.	26 Auto Parts	.	.	.	.
.	.	.	14 Recreatnl Veh->	14 Recreatnl Veh->	.	.	.	.
.	5 Trucks/Other	.	.	.
.
.
.
.

December 13, 2023

UNCHANGED at AVERAGE strength rating
(5th strongest of 9 levels)
previous move was UP

1 week 74% positive stocks as RACE, STLA, TM = Strongest Auto stocks

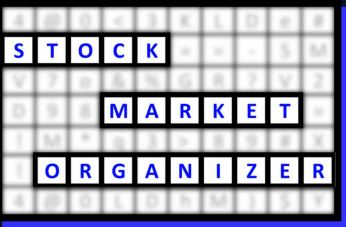


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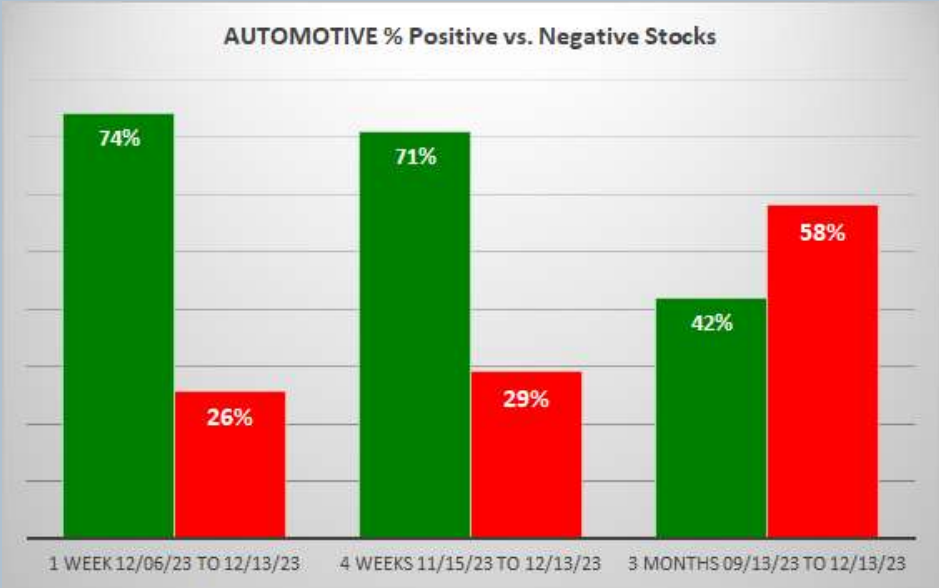
1. INDUSTRY OVERVIEW

1A. Performance

Past 10 Weeks Strengthening/Weakening week-by-week, per the following chart:

9Weakest	8VWeak	7Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest	Period
.	.	.	.	62 AUTO	.	.	.	.	7 Days - 12/06/23 to 12/13/23
.	.	.	62 AUTO->	62 AUTO->	.	.	.	.	7 Days - 11/29/23 to 12/06/23
.	.	.	62 AUTO	.	.	.	.	.	7 Days - 11/22/23 to 11/29/23
.	.	.	62 AUTO	.	.	.	.	.	7 Days - 11/15/23 to 11/22/23
.	.	.	62 AUTO	.	.	.	.	.	7 Days - 11/08/23 to 11/15/23
.	.	62 AUTO->	62 AUTO->	.	.	.	.	.	7 Days - 11/01/23 to 11/08/23
.	.	62 AUTO	.	.	.	.	.	.	7 Days - 10/25/23 to 11/01/23
.	.	62 AUTO	.	.	.	.	.	.	7 Days - 10/18/23 to 10/25/23
.	.	<-AUTO 62	<-AUTO 62	.	.	.	.	.	7 Days - 10/11/23 to 10/18/23
.	.	.	62 AUTO	.	.	.	.	.	7 Days - 10/04/23 to 10/11/23

STRENGTHENING 1 Week vs. Mid- and Longer-Term // 1 week positive/negative stocks ratio is HIGHER than both 4 weeks and 3 Months, per the following chart:



1B. Background

Largest of 4 sub-industries (62 stocks, average 16):

- * Auto Parts (26 stocks)
- * Auto Manufacturers – Major (17 stocks)
- * Recreational Vehicles (14 stocks)

Top 10 by Market Capitalization:

TSLA/Tesla Inc, TM/Toyota Motor Corporation ADS, RACE/Ferrari NV, STLA/Stellantis N.V., HMC/Honda Motor Co. Ltd. ADS, PCAR/Paccar Inc, GM/General Motors Company, F/Ford Motor Co, LI/Li Auto Inc, JCI/Johnson Controls Inc

2. SUB-INDUSTRIES AND STOCKS DETAIL

2A. Sub-Industries Overview

Strengthened: 1/4 sub-industries

Weakened: 0/4 sub-industries

STRONGEST at Strong rating/4th strongest of 9 levels:

- * Trucks & Other Vehicles (5 stocks)

WEAKEST at Average rating/5th strongest of 9 levels:

- * Auto Manufacturers – Major (17 stocks)
- * Auto Parts (26 stocks)
- * Recreational Vehicles (14 stocks)

2B. Sub-Industries 10-Week Strengthening Analysis

What: recent week-by-week strength changes for the industry and its sub-industries
Why: objective measurement of strengthening and weakening enabling comparison within and across industries and sub-industries

INDUSTRY CURRENT PERIOD SUMMARY										1 week 12/06/23 to 12/13/23									
Length - Begin/End	Industry/Sub-Industry	Period	#	Min	Avg	Max	Status	6Weakest	6VWeak	2Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest			
7 Days - 12/06/23 to 12/13/23	AUTOMOTIVE	Period 1 of 10 (Current)	62	-13%	2%	24%	Strengthened					62 AUTO							
7 Days - 12/06/23 to 12/13/23	AUTOMOTIVE - Auto Manufacturers - Major	Period 1 of 10 (Current)	17	-13%	0%	24%	Weakened					17 Major Mfrs							
7 Days - 12/06/23 to 12/13/23	AUTOMOTIVE - Auto Parts	Period 1 of 10 (Current)	26	-8%	2%	7%	Strengthened					26 Auto Parts							
7 Days - 12/06/23 to 12/13/23	AUTOMOTIVE - Recreational Vehicles	Period 1 of 10 (Current)	14	-1%	5%	16%	Strengthened					14 Recreatnl Veh-> 14 Recreatnl Veh->							
7 Days - 12/06/23 to 12/13/23	AUTOMOTIVE - Trucks & Other Vehicles	Period 1 of 10 (Current)	5	-4%	6%	8%	Unchanged										5 Trucks/Other		
7 Days - 12/06/23 to 12/13/23		Period 1 of 10 (Current)	-	-	-	-	-												
7 Days - 12/06/23 to 12/13/23		Period 1 of 10 (Current)	-	-	-	-	-												
7 Days - 12/06/23 to 12/13/23		Period 1 of 10 (Current)	-	-	-	-	-												
7 Days - 12/06/23 to 12/13/23		Period 1 of 10 (Current)	-	-	-	-	-												
7 Days - 12/06/23 to 12/13/23		Period 1 of 10 (Current)	-	-	-	-	-												
PREVIOUS WEEKS (EDUCATIONAL PURPOSES ONLY/NOT A STOCK OR INVESTMENT RECOMMENDATION)																			
Length - Begin/End	Industry/Sub-Industry	Period	#	Min	Avg	Max	Status	6Weakest	6VWeak	2Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest			
7 Days - 12/06/23 to 12/13/23	AUTOMOTIVE	Period 1 of 10 (Current)	62	-13%	2%	24%	Strengthened					62 AUTO							
7 Days - 11/29/23 to 12/06/23	AUTOMOTIVE	Period 2 of 10	62	-21%	1%	12%	Strengthened					62 AUTO-> 62 AUTO->							
7 Days - 11/22/23 to 11/29/23	AUTOMOTIVE	Period 3 of 10	62	-18%	0%	12%	Unchanged					62 AUTO							
7 Days - 11/15/23 to 11/22/23	AUTOMOTIVE	Period 4 of 10	62	-35%	-1%	22%	Unchanged					62 AUTO							
7 Days - 11/08/23 to 11/15/23	AUTOMOTIVE	Period 5 of 10	62	-18%	5%	17%	Strengthened					62 AUTO							
7 Days - 11/01/23 to 11/08/23	AUTOMOTIVE	Period 6 of 10	62	-30%	3%	57%	Strengthened					62 AUTO-> 62 AUTO->							
7 Days - 10/25/23 to 11/01/23	AUTOMOTIVE	Period 7 of 10	62	-26%	-2%	12%	Unchanged					62 AUTO							
7 Days - 10/18/23 to 10/25/23	AUTOMOTIVE	Period 8 of 10	62	-19%	-5%	4%	Weakened					62 AUTO							
7 Days - 10/11/23 to 10/18/23	AUTOMOTIVE	Period 9 of 10	62	-19%	-5%	2%	Weakened					<AUTO 62	<AUTO 62						
7 Days - 10/04/23 to 10/11/23	AUTOMOTIVE	Period 10 of 10	62	-14%	2%	17%	Strengthened					62 AUTO							
7 Days - 12/06/23 to 12/13/23	AUTOMOTIVE - Auto Manufacturers - Major	Period 1 of 10 (Current)	17	-13%	0%	24%	Weakened					17 Major Mfrs							
7 Days - 11/29/23 to 12/06/23	AUTOMOTIVE - Auto Manufacturers - Major	Period 2 of 10	17	-21%	-1%	12%	Strengthened					17 Major Mfrs-> 17 Major Mfrs->							
7 Days - 11/22/23 to 11/29/23	AUTOMOTIVE - Auto Manufacturers - Major	Period 3 of 10	17	-18%	1%	12%	Strengthened					17 Major Mfrs							
7 Days - 11/15/23 to 11/22/23	AUTOMOTIVE - Auto Manufacturers - Major	Period 4 of 10	17	-35%	-3%	22%	Weakened					17 Major Mfrs							
7 Days - 11/08/23 to 11/15/23	AUTOMOTIVE - Auto Manufacturers - Major	Period 5 of 10	17	-18%	3%	17%	Unchanged					17 Major Mfrs							
7 Days - 11/01/23 to 11/08/23	AUTOMOTIVE - Auto Manufacturers - Major	Period 6 of 10	17	-12%	2%	12%	Strengthened					17 Major Mfrs							
7 Days - 10/25/23 to 11/01/23	AUTOMOTIVE - Auto Manufacturers - Major	Period 7 of 10	17	-14%	-1%	10%	Strengthened					17 Major Mfrs							
7 Days - 10/18/23 to 10/25/23	AUTOMOTIVE - Auto Manufacturers - Major	Period 8 of 10	17	-15%	-5%	4%	Weakened					17 Major Mfrs							
7 Days - 10/11/23 to 10/18/23	AUTOMOTIVE - Auto Manufacturers - Major	Period 9 of 10	17	-19%	-8%	-1%	Weakened					<Major Mfrs 17	<Major Mfrs 17						
7 Days - 10/04/23 to 10/11/23	AUTOMOTIVE - Auto Manufacturers - Major	Period 10 of 10	17	-14%	1%	17%	Weakened					17 Major Mfrs							
7 Days - 12/06/23 to 12/13/23	AUTOMOTIVE - Auto Parts	Period 1 of 10 (Current)	26	-8%	2%	7%	Strengthened					26 Auto Parts							
7 Days - 11/29/23 to 12/06/23	AUTOMOTIVE - Auto Parts	Period 2 of 10	26	-9%	2%	11%	Strengthened					26 Auto Parts-> 26 Auto Parts->							
7 Days - 11/22/23 to 11/29/23	AUTOMOTIVE - Auto Parts	Period 3 of 10	26	-3%	0%	12%	Unchanged					26 Auto Parts							
7 Days - 11/15/23 to 11/22/23	AUTOMOTIVE - Auto Parts	Period 4 of 10	26	-10%	1%	14%	Strengthened					26 Auto Parts							
7 Days - 11/08/23 to 11/15/23	AUTOMOTIVE - Auto Parts	Period 5 of 10	26	-6%	5%	16%	Strengthened					26 Auto Parts-> 26 Auto Parts->							
7 Days - 11/01/23 to 11/08/23	AUTOMOTIVE - Auto Parts	Period 6 of 10	26	-14%	5%	57%	Strengthened					26 Auto Parts							
7 Days - 10/25/23 to 11/01/23	AUTOMOTIVE - Auto Parts	Period 7 of 10	26	-26%	-3%	12%	Unchanged					26 Auto Parts							
7 Days - 10/18/23 to 10/25/23	AUTOMOTIVE - Auto Parts	Period 8 of 10	26	-10%	-3%	4%	Weakened					26 Auto Parts							
7 Days - 10/11/23 to 10/18/23	AUTOMOTIVE - Auto Parts	Period 9 of 10	26	-19%	-5%	2%	Weakened					<Auto Parts 26	<Auto Parts 26						
7 Days - 10/04/23 to 10/11/23	AUTOMOTIVE - Auto Parts	Period 10 of 10	26	-2%	3%	12%	Strengthened					26 Auto Parts-> 26 Auto Parts->							
7 Days - 12/06/23 to 12/13/23	AUTOMOTIVE - Recreational Vehicles	Period 1 of 10 (Current)	14	-1%	5%	16%	Strengthened					14 Recreatnl Veh-> 14 Recreatnl Veh->							
7 Days - 11/29/23 to 12/06/23	AUTOMOTIVE - Recreational Vehicles	Period 2 of 10	14	-13%	2%	7%	Strengthened					14 Recreatnl Veh							
7 Days - 11/22/23 to 11/29/23	AUTOMOTIVE - Recreational Vehicles	Period 3 of 10	14	-6%	-1%	4%	Unchanged					14 Recreatnl Veh							
7 Days - 11/15/23 to 11/22/23	AUTOMOTIVE - Recreational Vehicles	Period 4 of 10	14	-9%	-2%	1%	Weakened					14 Recreatnl Veh							
7 Days - 11/08/23 to 11/15/23	AUTOMOTIVE - Recreational Vehicles	Period 5 of 10	14	2%	8%	13%	Strengthened					14 Recreatnl Veh-> 14 Recreatnl Veh->							
7 Days - 11/01/23 to 11/08/23	AUTOMOTIVE - Recreational Vehicles	Period 6 of 10	14	-30%	0%	10%	Strengthened					14 Recreatnl Veh							
7 Days - 10/25/23 to 11/01/23	AUTOMOTIVE - Recreational Vehicles	Period 7 of 10	14	-16%	2%	4%	Weakened					14 Recreatnl Veh							
7 Days - 10/18/23 to 10/25/23	AUTOMOTIVE - Recreational Vehicles	Period 8 of 10	14	-15%	-6%	1%	Weakened					14 Recreatnl Veh							
7 Days - 10/11/23 to 10/18/23	AUTOMOTIVE - Recreational Vehicles	Period 9 of 10	14	-13%	-3%	2%	Weakened					<Recreatnl Veh 14	<Recreatnl Veh 14						
7 Days - 10/04/23 to 10/11/23	AUTOMOTIVE - Recreational Vehicles	Period 10 of 10	14	-3%	1%	6%	Strengthened					14 Recreatnl Veh							
7 Days - 12/06/23 to 12/13/23	AUTOMOTIVE - Trucks & Other Vehicles	Period 1 of 10 (Current)	5	4%	6%	8%	Unchanged										5 Trucks/Other		
7 Days - 11/29/23 to 12/06/23	AUTOMOTIVE - Trucks & Other Vehicles	Period 2 of 10	5	2%	4%	11%	Strengthened					5 Trucks/Other-> 5 Trucks/Other->							
7 Days - 11/22/23 to 11/29/23	AUTOMOTIVE - Trucks & Other Vehicles	Period 3 of 10	5	-1%	0%	2%	Unchanged					5 Trucks/Other							
7 Days - 11/15/23 to 11/22/23	AUTOMOTIVE - Trucks & Other Vehicles	Period 4 of 10	5	-4%	1%	1%	Strengthened					5 Trucks/Other							
7 Days - 11/08/23 to 11/15/23	AUTOMOTIVE - Trucks & Other Vehicles	Period 5 of 10	5	4%	6%	7%	Strengthened					5 Trucks/Other-> 5 Trucks/Other->							
7 Days - 11/01/23 to 11/08/23	AUTOMOTIVE - Trucks & Other Vehicles	Period 6 of 10	5	-3%	1%	5%	Strengthened					5 Trucks/Other-> 5 Trucks/Other->							
7 Days - 10/25/23 to 11/01/23	AUTOMOTIVE - Trucks & Other Vehicles	Period 7 of 10	5	-3%	1%	5%	Strengthened					5 Trucks/Other							
7 Days - 10/18/23 to 10/25/23	AUTOMOTIVE - Trucks & Other Vehicles	Period 8 of 10	5	-13%	-5%	1%	Weakened					<Trucks/Other 5	<Trucks/Other 5						
7 Days - 10/11/23 to 10/18/23	AUTOMOTIVE - Trucks & Other Vehicles	Period 9 of 10	5	-8%	-5%	-3%	Weakened					<Trucks/Other 5	<Trucks/Other 5						
7 Days - 10/04/23 to 10/11/23	AUTOMOTIVE - Trucks & Other Vehicles	Period 10 of 10	5	0%	2%	4%	Unchanged					5 Trucks/Other							

Green Highlight: Strengthened

Red Highlight: Weakened

No Highlight: Unchanged

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December 13, 2023

For educational purposes only. Not a stock or investment recommendation.

2C. Stocks 1 Week Strongest and Weakest

What: stocks currently rated Strongest/Weakest (highest/lowest of 9 strength ratings)

Why: most interesting stocks for available capital because

- the Strongest have the least amount of overhead supply to dampen breakouts while
- the Weakest may be prone to volatility, subject to big pops from bottom-fishing and short-covering BUT ALSO to bigger and faster falls.

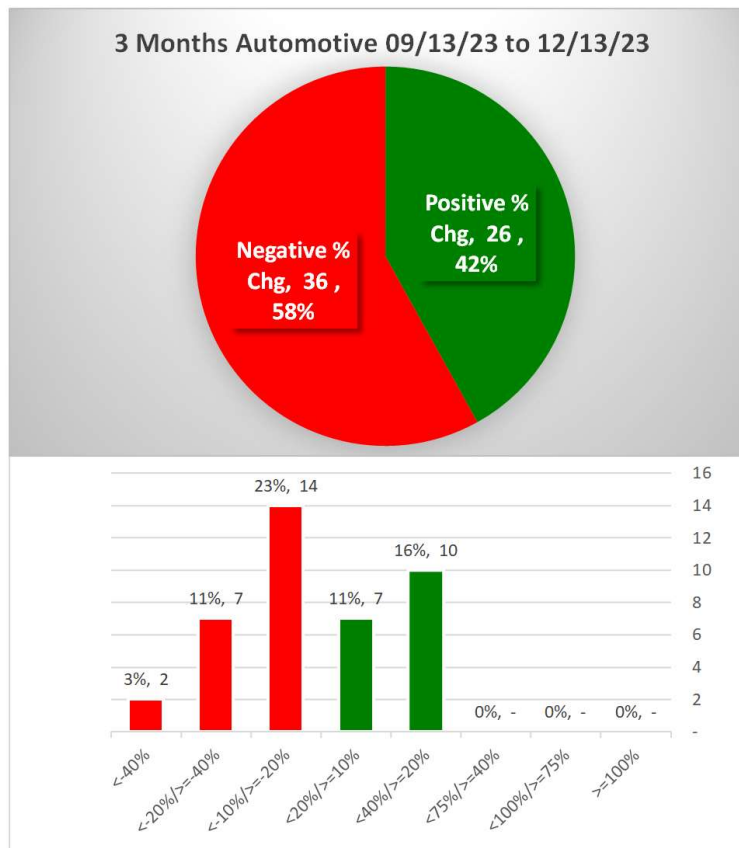
(Not guaranteed and not a recommendation – weak stocks in weakening sub-industries may be better shorts than high-flyers.)

STOCK DETAIL (EDUCATIONAL PURPOSES ONLY/NOT FINANCIAL ADVICE)										1 week 12/06/23 to 12/13/23							
Sub-Industry	Ticker	Company	ID1	ID2	% Chg	ID3	Status	9Weakest	8VWeak	7Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest	
AUTOMOTIVE - Auto Manufacturers - Major	RACE	Ferrari NV	15-59-51	99%	2%	21%	1Strongest									RACE	
AUTOMOTIVE - Auto Manufacturers - Major	STLA	Stellantis N.V.	15-59-51	100%	2%	25%	1Strongest									STLA	
AUTOMOTIVE - Auto Manufacturers - Major	TM	Toyota Motor Corporation ADS	15-59-51	75%	-2%	15%	1Strongest									TM	
AUTOMOTIVE - Auto Manufacturers - Major	FSR	Fisker	95-59-51	0%	5%	-73%	9Weakest	FSR									
AUTOMOTIVE - Auto Manufacturers - Major	NIO	NIO Inc	95-59-51	10%	-4%	-19%	9Weakest	NIO									
AUTOMOTIVE - Auto Manufacturers - Major	NIU	Niu Technologies	95-59-51	0%	-11%	-38%	9Weakest	NIU									
AUTOMOTIVE - Auto Manufacturers - Major	GOEV	Canoo Inc	95-59-51	1%	-11%	-53%	9Weakest	GOEV									
AUTOMOTIVE - Auto Parts	MLR	Miller Industries Inc	15-51-51	75%	4%	12%	1Strongest									MLR	
AUTOMOTIVE - Auto Parts	MOD	Modine Manufacturing Co	15-51-51	100%	4%	51%	1Strongest									MOD	
AUTOMOTIVE - Auto Parts	PATK	Patrick Industries Inc	15-51-51	89%	4%	17%	1Strongest									PATK	
AUTOMOTIVE - Auto Parts	CPS	Cooper-Standard Holdings	15-51-51	25%	2%	20%	1Strongest									CPS	
AUTOMOTIVE - Auto Parts	ALV	Autoliv Inc	15-51-51	91%	0%	10%	1Strongest									ALV	
AUTOMOTIVE - Auto Parts	THRM	Gentherm Inc.	95-51-51	28%	5%	-14%	9Weakest	THRM									
AUTOMOTIVE - Auto Parts	ADNT	Adient Plc	95-51-51	59%	3%	-10%	9Weakest	ADNT									
AUTOMOTIVE - Auto Parts	BWA	Borg Warner Inc	95-51-51	53%	2%	-17%	9Weakest	BWA									
AUTOMOTIVE - Auto Parts	VC	Visteon Corp	95-51-51	62%	2%	-13%	9Weakest	VC									
AUTOMOTIVE - Auto Parts	LKQ	LKQ Corp	95-51-51	70%	2%	-12%	9Weakest	LKQ									
AUTOMOTIVE - Auto Parts	APTV	Aptiv	95-51-51	33%	1%	-17%	9Weakest	APTV									
AUTOMOTIVE - Auto Parts	CAAS	China Automotive Systems Inc	99-51-51	21%	-7%	-25%	9Weakest	<--CAAS	<--CAAS	<--CAAS	<--CAAS						
AUTOMOTIVE - Recreational Vehicles	REVG	REV Group	15-51-51	84%	16%	40%	1Strongest									REVG	
AUTOMOTIVE - Recreational Vehicles	FSS	Federal Signal Corp	15-51-51	100%	8%	27%	1Strongest									FSS	
AUTOMOTIVE - Recreational Vehicles	THO	Thor Industries Inc	15-51-51	64%	5%	18%	1Strongest									THO	
AUTOMOTIVE - Recreational Vehicles	WGO	Winnebago Industries Inc	11-51-51	74%	1%	13%	1Strongest									WGO-->	
AUTOMOTIVE - Recreational Vehicles	MPX	Marine Products Corp	95-51-51	27%	3%	-23%	9Weakest	MPX									
AUTOMOTIVE - Recreational Vehicles	FOXF	Fox Factory Holding Corp	95-51-51	18%	2%	-35%	9Weakest	FOXF									
AUTOMOTIVE - Recreational Vehicles	PII	Polaris Industries Inc	95-51-51	46%	0%	-18%	9Weakest	PII									
AUTOMOTIVE - Recreational Vehicles	DOOO	BRP Inc	95-51-51	54%	-1%	-21%	9Weakest	DOOO									
AUTOMOTIVE - Trucks & Other Vehicles	OSK	Oshkosh Corp	15-45-51	62%	5%	16%	1Strongest									OSK	
AUTOMOTIVE - Trucks & Other Vehicles	PCAR	Paccar Inc	15-45-51	100%	4%	21%	1Strongest									PCAR	

Strongest to Weakest stocks ratio is 14:15 (23% and 24% of total) 12/06/23 to 12/13/23.

3. STRENGTH BY LOOKBACK PERIOD (with Best/Worst stocks)

3A. Lookback 3 Months

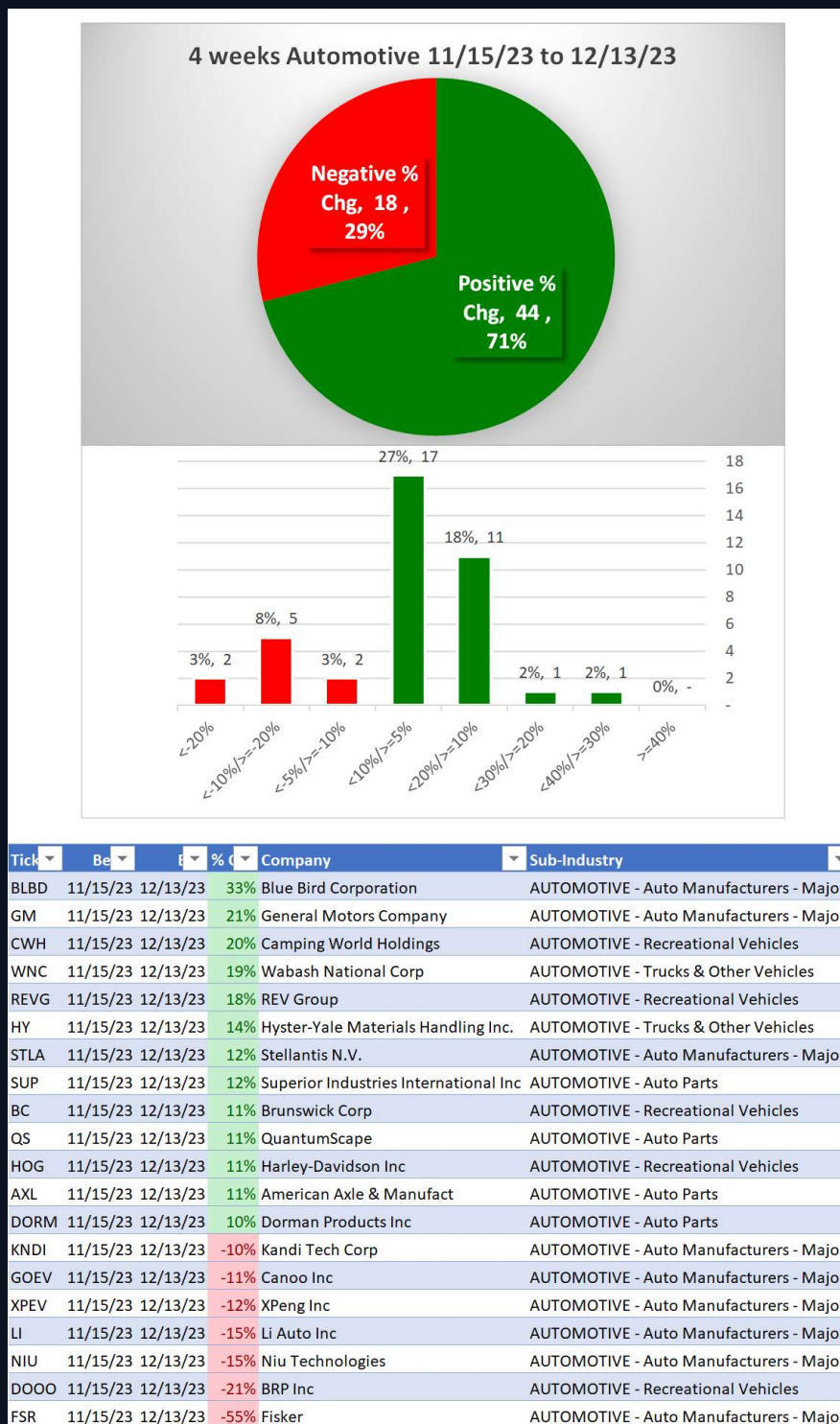


Tick	Be	t	% C	Company	Sub-Industry
REVG	09/13/23	12/13/23	33%	REV Group	AUTOMOTIVE - Recreational Vehicles
FSS	09/13/23	12/13/23	32%	Federal Signal Corp	AUTOMOTIVE - Recreational Vehicles
BLBD	09/13/23	12/13/23	26%	Blue Bird Corporation	AUTOMOTIVE - Auto Manufacturers - Major
CPS	09/13/23	12/13/23	24%	Cooper-Standard Holdings	AUTOMOTIVE - Auto Parts
HY	09/13/23	12/13/23	24%	Hyster-Yale Materials Handling Inc.	AUTOMOTIVE - Trucks & Other Vehicles
RACE	09/13/23	12/13/23	24%	Ferrari NV	AUTOMOTIVE - Auto Manufacturers - Major
WNC	09/13/23	12/13/23	22%	Wabash National Corp	AUTOMOTIVE - Trucks & Other Vehicles
MOD	09/13/23	12/13/23	22%	Modine Manufacturing Co	AUTOMOTIVE - Auto Parts
MPAA	09/13/23	12/13/23	22%	Motorcar Parts of America Inc.	AUTOMOTIVE - Auto Parts
STLA	09/13/23	12/13/23	21%	Stellantis N.V.	AUTOMOTIVE - Auto Manufacturers - Major
KNDI	09/13/23	12/13/23	-21%	Kandi Tech Corp	AUTOMOTIVE - Auto Manufacturers - Major
MPX	09/13/23	12/13/23	-21%	Marine Products Corp	AUTOMOTIVE - Recreational Vehicles
LCID	09/13/23	12/13/23	-24%	Lucid Group Inc	AUTOMOTIVE - Auto Manufacturers - Major
NIO	09/13/23	12/13/23	-26%	NIO Inc	AUTOMOTIVE - Auto Manufacturers - Major
NIU	09/13/23	12/13/23	-29%	Niu Technologies	AUTOMOTIVE - Auto Manufacturers - Major
FOXF	09/13/23	12/13/23	-38%	Fox Factory Holding Corp	AUTOMOTIVE - Recreational Vehicles
WKHS	09/13/23	12/13/23	-38%	Workhorse Group Inc	AUTOMOTIVE - Auto Manufacturers - Major
GOEV	09/13/23	12/13/23	-53%	Canoo Inc	AUTOMOTIVE - Auto Manufacturers - Major
FSR	09/13/23	12/13/23	-77%	Fisker	AUTOMOTIVE - Auto Manufacturers - Major

10 stocks >+20% and 9 stocks <-20% (16% and 15% of total) 09/13/23 to 12/13/23.

3. STRENGTH BY LOOKBACK PERIOD (with Best/Worst stocks)

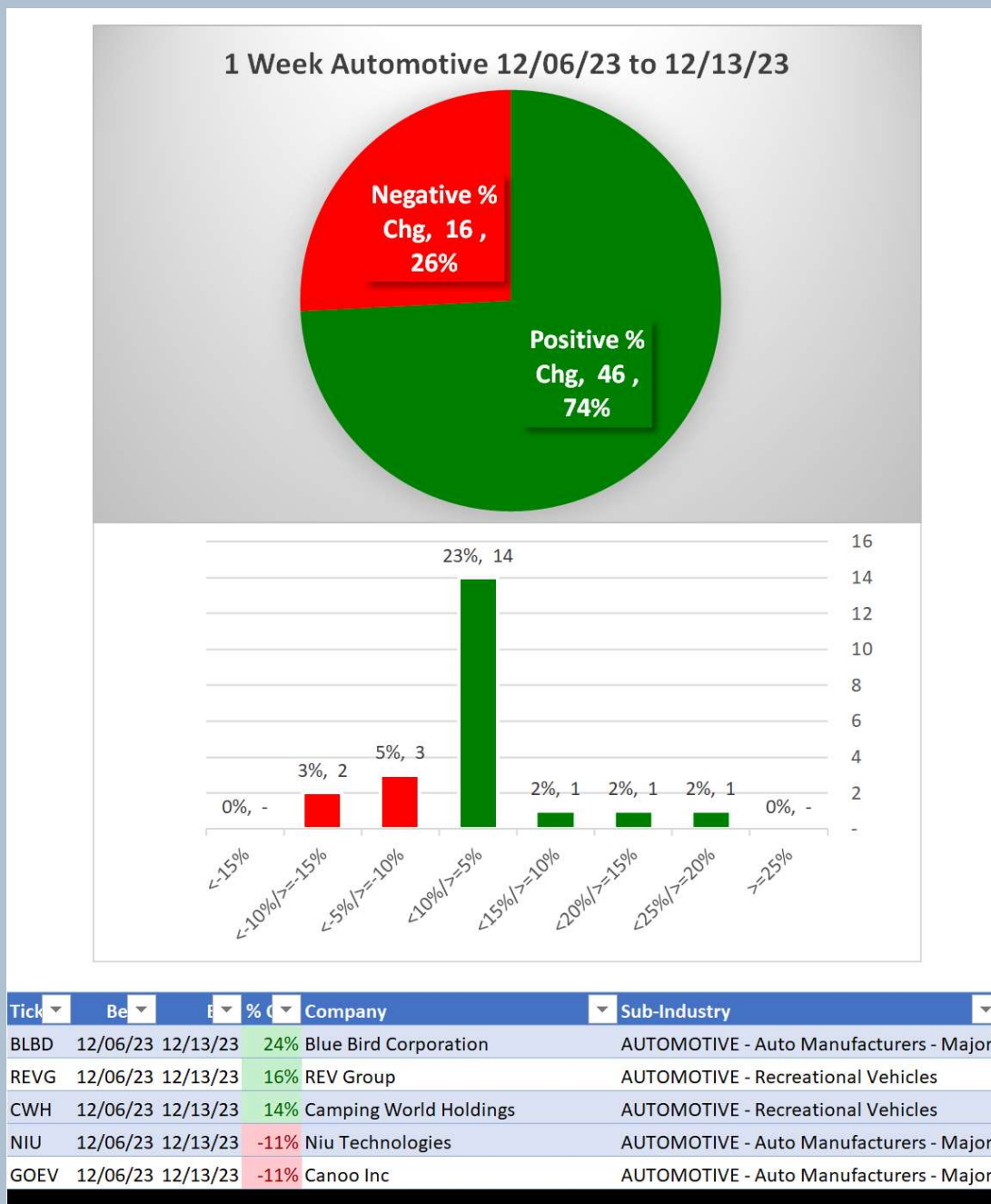
3B. Lookback 4 Weeks



13 stocks >+10% and 7 stocks <-10% (21% and 11% of total) 11/15/23 to 12/13/23.

3. STRENGTH BY LOOKBACK PERIOD (with Best/Worst stocks)

3C. Lookback 1 Week



3 stocks > +10% and 2 stocks < -10% (5% and 3% of total) 12/06/23 to 12/13/23.