

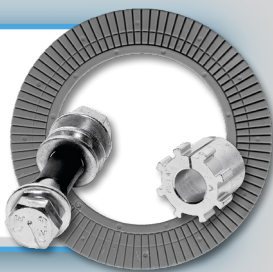
Wheel Alignment Adjustment Guide

Suspension adjustments and Safety System Alignment® resets

1996 – 2023



Wheel
Alignment
Guide



– and –

Safety System
Alignment®
Guide



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Table of Contents

ACURA	1	LAND ROVER	38
ALFA ROMEO	2	LEXUS	40
ASTON MARTIN	2	LINCOLN	44
AUDI	2	LOTUS	45
BENTLEY	5	LUCID	45
BMW	6	MASERATI	45
BMW	10	MAZDA	45
BRIGHTDROP	10	MERCEDES-BENZ	46
BUICK	10	MERCURY	49
CADILLAC	12	MINI	50
CHEVROLET	13	MITSUBISHI	51
CHRYSLER	17	NISSAN	52
DAEWOO	18	OLDSMOBILE	54
DODGE / RAM / SRT	18	PLYMOUTH	54
EAGLE	21	POLESTAR	55
FERRARI	21	PONTIAC	55
FIAT	22	PORSCHE	56
FISKER	22	RIVIAN	57
FORD	22	ROLLS-ROYCE	58
GMC	26	SAAB	58
GENESIS	27	SATURN	59
GEO	28	SCION	59
HONDA	28	SMART	59
HUMMER	30	SUBARU	60
HYUNDAI	30	SUZUKI	61
INFINITI	32	TESLA	62
ISUZU	33	TOYOTA	62
JAGUAR	34	VINFAST	66
JEEP	35	VOLKSWAGEN	66
KARMA AUTOMOTIVE	35	VOLVO	69
KIA	36		
LAMBOURGHINI	38		

Reset requirements detailed in this guide are based on OEM service documentation calling for a reset of the respective system after a wheel alignment. Systems that do not have a documented OEM reset requirement after alignment are not listed.

Advanced Driver Assistance System (ADAS) resets require CodeLink® 2 and WinAlign® 15.0 or higher and may require special tools and equipment. A few ADAS resets now require CodeLink® 2 and WinAlign® 16.0 or higher and may require special tools and equipment.

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Wheel Alignment Adjustments					ACURA		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	 ESC	 ACC	 LDW	 AEB	 4WS	 NVS	 AFS	 FCW	 RCS
Strut Rod	B-Joint(A)	Shim(A)	Cam		4D CL (2.2/2.3/3.0/3.2)	97-03										
	Cam/Bolt(K)	Arm(A)	Cam		4D CSX	06-11										
B-Joint(A)	B-Joint(A)	Shim(A)	Arm-Slot		4D EL	97-00										
	Cam/Bolt(K)	Arm(A)	Cam		4D EL	01-05										
	Cam/Bolt(K)	Arm(A)	Cam		4D ILX	13-22	★	ESC								
B-Joint(A)	B-Joint(A)	Shim(A)	Arm-Slot		4D Integra	90-01										
	Strut(U)		Cam/Bolt(K)		4D Integra	23-23	★	ESC								
	Strut(L)	Arm(A)	Cam		4D MDX	01-02										
	Strut(L)	Arm(A)	Cam		4D MDX	03-06	★	ESC								
	Cam/Bolt(K)	Arm(A)	Cam		4D MDX	07-13	★	ESC								
		B-Joint(A)	Cam		4D MDX (incl Sport Hybrid)	14-20	★	ESC								
			Cam		4 MDX 3.5L	22-23	★	ESC								
			Cam	8	4 MDX 3.0L (Type S)	22-23	★	ESC								
Cam	Cam	Cam	Tie Rod		4 NSX	91-05										
Cam	Shim(O)	Shim(O)	Tie Rod		4D NSX	17-22	★	ESC								
	Cam/Bolt(K)	Arm(A)	Cam		4D RDX 4X2	10-12										
	Cam/Bolt(K)	Arm(A)	Cam		4D RDX 4X4	07-12	★	ESC								
	Cam/Bolt(K)	Arm(A)	Cam		4D RDX	13-18	★	ESC								
	Strut(U)		Cam/Bolt(K)		4D RDX	19-23	★	ESC								
B-Joint(A)	B-Joint(A)	Arm(A)	Cam		4D RL	96-04										
			Cam		4 RL	05-08	★	ESC								
			Cam		4 RL	09-12	★	ESC								
			Cam		4 RLX 4X2	14-17	★	ESC				4WS				
			Cam		4 RLX 4X4 Sport Hybrid	14-17	★	ESC								
			Cam		4 RLX 4X2	18-20	★	ESC				4WS				
			Cam		4 RLX 4X4 Sport Hybrid	18-20	★	ESC								
	Cam/Bolt(K)	Arm(A)	Cam		4D RSX	02-06										
Shim(O)	Shim(O)				TD SLX	96-99										
Strut Rod	B-Joint(A)	Arm(A)	Cam		4D TL (3.2/2.5)	96-03										
B-Joint(A)	B-Joint(A)	Arm(A)	Cam		4D TL	04-14										
		Arm(A)	Cam		4D TL 4X4	09-14	★	ESC								
	Strut(U)	Arm(A)	Cam		4D TLX 4X2	15-20	★	ESC				4WS				
	Strut(U)	Arm(A)	Cam		4D TLX 4X4	15-20	★	ESC								
			Cam		4 TLX	21-23	★	ESC								
B-Joint(A)	B-Joint(A)	Arm(A)	Cam		4D TSX	04-14										
	Cam/Bolt(K)	Arm(A)	Cam		4D ZDX	10-13	★	ESC								

Wheel Alignment Key		
▲	Additional parts/procedure might be needed	
■	Aftermarket parts required	
4	4-wheel alignment, equipped with standard factory adjustments	
4D	4-wheel alignment, may require additional parts/procedures	
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment	
T	Thrust-line alignment (no rear adjustments)	
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper

Notes

- 8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.

Description	
■	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
■	Reset Required - Standard feature Use CodeLink or OEM scan tool
■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

4WS	Four-Wheel Steering	(Acura) VSA	Vehicle Stability Assist
ESC	Electronic Stability Control		

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments						ALFA ROMEO			Safety System Alignment Resets											
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes		Model	Years	★		ESC	EPS	ACC		LDW	AEB	4WS	NVS	AFS	FCW	
	Shim(O)	Cam	Tie Rod			4D 4C	14-20													
		Cam	Cam			4 Giulia	17-18	★		EPS	ACC									
		Cam	Cam			4 Giulia	19-23	★		EPS	ACC									
		Cam	Cam			4 Stelvio	18-18	★		EPS	ACC									
		Cam	Cam			4 Stelvio	19-23	★		EPS	ACC									
			Cam			4 Tonale	23-24	★		EPS	ACC									
Wheel Alignment Adjustments						ASTON MARTIN			Safety System Alignment Resets											
Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes	Model	Years	★		ESC	ACC	LDW		AEB	4WS	NVS	AFS	FCW	RCS	
Shim(O)	Shim(O)	Cam				4D DB7	94-04													
Cam	Cam	Cam	Cam	lbs		4 DB9	05-16	★												
Cam	Cam	Cam	Cam	lbs	8	4 DB11	17-23	★		ESC										
Cam	Cam	Cam	Cam	lbs		4 DBS	08-12	★												
Cam	Cam	Cam	Cam	lbs	8	4 DBS Superleggera	19-23	★		ESC										
Cam	Cam	Cam	Cam		8	4 DBX	21-23	★		ESC										
Cam	Cam	Cam	Cam	lbs		4 Lagonda Taraf	15-17	★												
Cam	Cam	Cam	Cam	lbs		4 Rapide	10-19	★												
Cam	Cam	Cam	Cam	lbs		4 V8 Vantage	06-17	★												
Cam	Cam	Cam	Cam	lbs	8	4 Vantage	19-23	★		ESC										
Cam	Cam	Cam	Cam	lbs		4 V12 Vanquish	13-17	★												
	Cam		Tie Rod	lbs		4 V12 Vanquish	01-07	★												
Cam	Cam	Cam	Cam	lbs		4 V12 Vantage / Vantage S	10-17	★												
Cam	Cam	Cam	Cam	lbs	8	4 V12 Vantage	23-23	★		ESC										
Cam	Cam		Cam	lbs		4 Virage / Volante	12-12	★												
Wheel Alignment Adjustments						AUDI			Safety System Alignment Resets											
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes		Model	Years	★		ESC	ACC	LDW		AEB	NVS	AFS	FCW	RCS	AFL	
	Subframe	Cam	Cam			4D A3	06-13	★		ESC										
	Subframe					TD A3 w/Rear Beam Axle	15-16	★		ESC	ACC	LDW							RCS	
	Subframe	Cam	Cam			4D A3/S3/RS 3 w/IRS	15-20	★		ESC	ACC	LDW							RCS	
	Subframe	Cam	Cam			4D A3/S3/RS 3	22-23	★		ESC	ACC	LDW								
Arm(A)	Subframe		Ax-Shift	7		4D A4 FWD	96-00	★												
Arm(A)	Subframe		Ax-Shift	7		4D A4 FWD	01-01	★		ESC										
Arm(A)	Subframe	Cam	Cam	7		4D A4/S4/RS 4 Quattro	96-00	★												
Arm(A)	Subframe	Cam	Cam	7		4D A4/S4/RS 4 Quattro	01-01	★		ESC										

Wheel Alignment Key	
	Additional parts/procedure might be needed
	Aftermarket parts required
4	4-wheel alignment, equipped with standard factory adjustments
4D	4-wheel alignment, may require additional parts/procedures
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T	Thrust-line alignment (no rear adjustments)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper

Notes

7	Requires Audi/VW OEM tools/procedures to perform raised toe adjustment
8	Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.
lbs	Requires loading of vehicle before alignment

Description	
	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
	Reset Required - Standard feature Use CodeLink or OEM scan tool
	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ACC	Adaptive Cruise Control	EPS	Electronic Power Steering
ESC	Electronic Stability Control	AFS	Active Front Steering
LDW	Lane Departure Warning	(Audi) ESP	Electronic Stability Program
RCS	Rear Camera System	(Alfa Romeo)	Vehicle Dynamic Control
		VDC	

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					AUDI			Safety System Alignment Resets							
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ACC	LDW		NVS	AFS	RCS	AFL
Arm(A)	Subframe	Cam	Cam	7	4D A4/S4/RS 4	02-08	★	ESC							
Arm(A)	Subframe	Cam	Cam		4D A4/S4/RS 4	09-16	★	ESC	ACC	LDW			AFS		
Arm(A)	Subframe	Cam	Cam		4D A4 allroad	13-16	★	ESC	ACC	LDW			AFS		
Arm(A)	Subframe	Cam	Cam		4D A4/S4/RS 4	17-23	★	ESC	ACC	LDW▶				RCS	AFL
Arm(A)	Subframe	Cam	Cam		4D A4/S4/RS 4 w/Dynamic Steering	17-23	★	ESC	ACC	LDW▶			AFS	RCS	AFL
Arm(A)	Subframe	Cam	Cam		4D A4 allroad	17-23	★	ESC	ACC	LDW▶			AFS	RCS	AFL
Arm(A)	Subframe	Cam	Cam		4D A5/S5/RS 5	08-17	★	ESC	ACC	LDW			AFS		
Arm(A)	Subframe	Cam	Cam		4D A5/S5	18-23	★	ESC	ACC	LDW▶				RCS	AFL
Arm(A)	Subframe	Cam	Cam		4D A5/S5 w/Dynamic Steering	18-23	★	ESC	ACC	LDW▶			AFS	RCS	AFL
	Subframe	Cam	Cam		4D RS 5	18-23	★	ESC	ACC	LDW				RCS	AFL
	Subframe	Cam	Cam		4D RS 5 w/Dynamic Steering	18-23	★	ESC	ACC	LDW			AFS	RCS	AFL
Strut(U)					T	A6 FWD	95-97								
Strut(U)					Tie Rod	Arm-Slot	4	A6/S6 Quattro	95-97						
Arm(A)	Subframe		Ax-Shift	7	4D A6 FWD (except 1998 Wagon)	98-99	★								
Arm(A)	Subframe		Ax-Shift	7	4D A6 FWD (except 1998 Wagon)	00-01	★	ESC							
Arm(A)	Subframe		Ax-Shift	7	4D A6 FWD (except 1998 Wagon)	02-04	★	ESC							
Strut(U)					T	A6 FWD (1998 Wagon)	98-98								
Arm(A)	Subframe	Cam	Cam	7	4D A6/S6/RS 6 Quattro	98-99	★								
Arm(A)	Subframe	Cam	Cam	7	4D A6/S6/RS 6 Quattro	00-01	★	ESC							
Arm(A)	Subframe	Cam	Cam	7	4D A6/S6/RS 6 Quattro	02-04	★	ESC							
Arm(A)	Subframe	Cam	Cam	7	4D A6/S6/RS 6	05-11	★	ESC	ACC	LDW					
Arm(A)	Subframe	Cam	Cam	78	4D A6/S6/RS 6 w/SLS	05-11	★	ESC	ACC	LDW					
Arm(A)	Subframe	Cam	Cam		4D A6/S6/RS 6	12-18	★	ESC	ACC	LDW		NVS	AFS	RCS	
Arm(A)	Subframe	Cam	Cam	8	4D A6/S6/RS 6 w/SLS	12-18	★	ESC	ACC	LDW		NVS	AFS	RCS	
	Subframe	Cam	Cam		4D A6/S6	19-19	★	ESC	ACC	LDW▶		NVS		RCS	
	Subframe	Cam	Cam		4D A6/S6 w/Dynamic Steering	19-19	★	ESC	ACC	LDW▶	4WS	NVS	AFS	RCS	
	Subframe	Cam	Cam	8	4D A6/S6 Air Susp	19-19	★	ESC	ACC	LDW▶		NVS		RCS	
	Subframe	Cam	Cam	8	4D A6/S6 Air Susp w/Dynamic Steering	19-19	★	ESC	ACC	LDW▶	4WS	NVS	AFS	RCS	
	Subframe	Cam	Cam		4D A6/S6	20-23	★	ESC	ACC	LDW▶		NVS		RCS	

Wheel Alignment Key		
▲	Additional parts/procedure might be needed	
■	Aftermarket parts required	
4	4-wheel alignment, equipped with standard factory adjustments	
4D	4-wheel alignment, may require additional parts/procedures	
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment	
T	Thrust-line alignment (no rear adjustments)	
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper

Notes

- 7 Requires Audi/VW OEM tools/procedures to perform raised toe adjustment
- 8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.

Description	
■	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
■	Reset Required - Standard feature Use CodeLink or OEM scan tool
■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ACC	Adaptive Cruise Control	(Audi) ESP	Electronic Stability Program
AFS	Active Front Steering	4WS	Four-Wheel Steering
ESC	Electronic Stability Control	AFL	Adaptive Front Lighting
LDW	Lane Departure Warning	NVS	Night Vision System
		RCS	Rear Camera System

Safety System Key

- ▶ Requires CodeLink©2 WinAlign 16.x or newer and special tools or fixtures

Wheel Alignment Adjustments					AUDI		Safety System Alignment Resets							
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	4WS	NVS	AFS	RCS
	Subframe	Cam	Cam		4D A6/S6 w/Dynamic Steering	20-23	★	ESC	ACC	LDW▶	4WS	NVS	AFS	RCS
	Subframe	Cam	Cam	8	4D A6/S6 Air Susp	20-23	★	ESC	ACC	LDW▶		NVS		RCS
	Subframe	Cam	Cam	8	4D A6/S6 Air Susp w/Dynamic Steering	20-23	★	ESC	ACC	LDW▶	4WS	NVS	AFS	RCS
	Subframe	Cam	Cam		4D RS 6	20-23	★	ESC	ACC	LDW	4WS	NVS	AFS	RCS
	Subframe	Cam	Cam		4D A6 allroad	20-23	★	ESC	ACC	LDW	4WS	NVS	AFS	RCS
	Subframe	Cam	Cam	8	4D A6 allroad Air Susp	20-23	★	ESC	ACC	LDW	4WS	NVS	AFS	RCS
Arm(A)	Subframe	Cam	Cam		4D A7/S7/RS 7	12-18	★	ESC	ACC	LDW		NVS	AFS	RCS
Arm(A)	Subframe	Cam	Cam	8	4D A7/S7/RS 7 Air Susp	12-18	★	ESC	ACC	LDW		NVS	AFS	RCS
	Subframe	Cam	Cam		4D A7/S7	19-19	★	ESC	ACC	LDW▶		NVS		RCS
	Subframe	Cam	Cam		4D A7/S7 w/Dynamic Steering	19-19	★	ESC	ACC	LDW▶	4WS	NVS	AFS	RCS
	Subframe	Cam	Cam	8	4D A7/S7 Air Susp	19-19	★	ESC	ACC	LDW▶		NVS		RCS
	Subframe	Cam	Cam	8	4D A7/S7 Air Susp w/Dynamic Steering	19-19	★	ESC	ACC	LDW▶	4WS	NVS	AFS	RCS
	Subframe	Cam	Cam		4D A7/S7	20-23	★	ESC	ACC	LDW▶		NVS		RCS
	Subframe	Cam	Cam		4D A7/S7 w/Dynamic Steering	20-23	★	ESC	ACC	LDW▶	4WS	NVS	AFS	RCS
	Subframe	Cam	Cam	8	4D A7/S7 Air Susp	20-23	★	ESC	ACC	LDW▶		NVS		RCS
	Subframe	Cam	Cam	8	4D A7/S7 Air Susp w/Dynamic Steering	20-23	★	ESC	ACC	LDW▶	4WS	NVS	AFS	RCS
	Subframe	Cam	Cam		4D RS 7	20-23	★	ESC	ACC	LDW	4WS	NVS	AFS	RCS
	Subframe	Cam	Cam	7	4D A8/S8	97-99	★							
	Subframe	Cam	Cam	7	4D A8/S8	00-00	★	ESC						
	Subframe	Cam	Cam	7	4D A8/S8	01-03	★	ESC						
Arm(A)	Subframe	Cam	Cam	78	4D A8/S8	04-10	★	ESC	ACC	LDW				
	Subframe	Cam	Cam	8	4D A8/S8	11-18	★	ESC	ACC	LDW		NVS	AFS	RCS
	Subframe	Cam	Cam	8	4D A8/S8	19-19	★	ESC	ACC	LDW	4WS	NVS	AFS	RCS
	Subframe	Cam	Cam	8	4D A8/S8	20-23	★	ESC	ACC	LDW	4WS	NVS	AFS	RCS
Arm(A)	Subframe	Cam	Cam	7	4D allroad Quattro	01-05	★	ESC						
	Arm-Slot				T Cabriolet	94-98								
	Subframe	Cam	Cam	8	4D e-tron	19-23	★	ESC	ACC	LDW▶				RCS
	Subframe	Cam	Cam		4D e-tron GT	22-23	★	ESC	ACC	LDW		NVS		
	Subframe	Cam	Cam		4D Q3/RS Q3	15-18	★	ESC		LDW				RCS
	Subframe	Cam	Cam		4D Q3/RS Q3	19-23	★	ESC	ACC	LDW				RCS
	Subframe	Cam	Cam		4D Q4 e-tron	22-23	★	ESC	ACC	LDW				

Wheel Alignment Key		
▲	Additional parts/procedure might be needed	
■	Aftermarket parts required	
4	4-wheel alignment, equipped with standard factory adjustments	
4D	4-wheel alignment, may require additional parts/procedures	
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T	Thrust-line alignment (no rear adjustments)	
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper

Notes

- 7 Requires Audi/VW OEM tools/procedures to perform raised toe adjustment
- 8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.

Description	
▶	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
■	Reset Required - Standard feature Use CodeLink or OEM scan tool
■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ACC	Adaptive Cruise Control	(Audi) ESP	Electronic Stability Program
AFS	Active Front Steering	4WS	Four-Wheel Steering
ESC	Electronic Stability Control	NVS	Night Vision System
LDW	Lane Departure Warning	RCS	Rear Camera System

Safety System Key

- ▶ Requires CodeLink©2 WinAlign 16.x or newer and special tools or fixtures

Wheel Alignment Adjustments					AUDI			Safety System Alignment Resets								
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★									
Arm(A)	Subframe	Cam	Cam		4D Q5/SQ5	09-17	★	ESC	ACC	LDW				AFS		
Arm(A)	Subframe	Cam	Cam		4D Q5 Hybrid	13-17	★	ESC	ACC	LDW				AFS		
	Subframe	Cam	Cam		4D Q5/SQ5 (incl. Hybrid)	18-20	★	ESC	ACC▶	LDW▶					RCS	AFL
	Subframe	Cam	Cam		4D Q5/SQ5 (incl. Hybrid) w/Dynamic Steering	18-20	★	ESC	ACC▶	LDW▶				AFS	RCS	AFL
	Subframe	Cam	Cam		4D Q5/SQ5 (incl. Hybrid)	21-23	★	ESC	ACC▶	LDW▶					RCS	AFL
	Subframe	Cam	Cam		4D Q5/SQ5 (incl. Hybrid) w/Dynamic Steering	21-23	★	ESC	ACC▶	LDW▶				AFS	RCS	AFL
Cam	Cam	Cam	Cam		4 Q7	07-15	★	ESC	ACC	LDW						
Cam	Cam	Cam	Cam	8	4 Q7 Air Susp	07-15	★	ESC	ACC	LDW						
	Subframe	Cam	Cam		4D Q7/SQ7	17-19	★	ESC	ACC▶	LDW▶	4WS	NVS			RCS	AFL
	Subframe	Cam	Cam	8	4D Q7/SQ7 Air Susp	17-19	★	ESC	ACC▶	LDW▶	4WS	NVS			RCS	AFL
	Subframe	Cam	Cam		4D Q7/SQ7	20-23	★	ESC	ACC▶	LDW▶	4WS	NVS			RCS	AFL
	Subframe	Cam	Cam	8	4D Q7/SQ7 Air Susp	20-23	★	ESC	ACC▶	LDW▶	4WS	NVS			RCS	AFL
	Subframe	Cam	Cam		4D Q8/SQ8/RS Q8	19-19	★	ESC	ACC▶	LDW▶	4WS	NVS			RCS	AFL
	Subframe	Cam	Cam	8	4D Q8/SQ8/RS Q8 Air Susp	19-19	★	ESC	ACC▶	LDW▶	4WS	NVS			RCS	AFL
	Subframe	Cam	Cam		4D Q8/SQ8/RS Q8	20-23	★	ESC	ACC▶	LDW▶	4WS	NVS			RCS	AFL
	Subframe	Cam	Cam	8	4D Q8/SQ8/RS Q8 Air Susp	20-23	★	ESC	ACC▶	LDW▶	4WS	NVS			RCS	AFL
	Subframe	Cam	Cam	8	4D Q8/SQ8 e-tron	24-24	★	ESC	ACC	LDW					RCS	
	Cam	Cam	Cam		4 R8	08-15	★	ESC								
	Shim(O)	Shim(O)	Tie Rod		4D R8	17-23	★	ESC						AFS	RCS	AFL
Strut(AU)	Arm-Slot		Ax-Shift		4D TT FWD	00-00										
Strut(AU)	Arm-Slot		Ax-Shift		4D TT FWD	01-06	★	ESC								
Strut(AU)	Arm-Slot	Arm-Slot	Arm-Slot		4D TT Quattro	00-00										
Strut(AU)	Arm-Slot	Arm-Slot	Arm-Slot		4D TT Quattro	01-06	★	ESC								
	B-Joint	Cam	Cam		4 TT	08-15	★	ESC								
	Sub/B-J	Cam	Cam		4D TT	16-23	★	ESC		LDW					RCS	
Wheel Alignment Adjustments					BENTLEY			Safety System Alignment Resets								
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★									
Cam	Cam	Cam	Cam		4 Arnage	99-01										
Cam	Cam	Cam	Cam		4 Arnage	02-05										
Cam	Cam	Cam	Cam		4 Arnage	06-10										
Cam	Cam	Cam	Cam		4 Azure	06-10										
Subframe	Subframe	Cam	Cam	8	4D Bentayga	17-23	★	ESC	ACC	LDW		NVS			RCS	
Cam	Cam	Cam	Cam		4 Brooklands	08-10										

Wheel Alignment Key					Description	
▲	Additional parts/procedure might be needed				▶	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
■	Aftermarket parts required				★	Vehicle requires safety system alignment or notes
4	4-wheel alignment, equipped with standard factory adjustments				■	Reset Required - Standard feature Use CodeLink or OEM scan tool
4D	4-wheel alignment, may require additional parts/procedures				■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment				■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T	Thrust-line alignment (no rear adjustments)				■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures					

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

- 8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.

ACC	Adaptive Cruise Control	(Audi) ESP	Electronic Stability Program
AFS	Active Front Steering	(Bentley) ESP	Electronic Stability Program
ESC	Electronic Stability Control	4WS	Four-Wheel Steering
LDW	Lane Departure Warning	AFL	Adaptive Front Lighting
		NVS	Night Vision System
		RCS	Rear Camera System

Safety System Key

- ▶ Requires CodeLink©2 WinAlign 16.x or newer and special tools or fixtures

Wheel Alignment Adjustments

Front Caster	Front Camber	Rear Camber	Rear Toe	Notes
	Subframe	Cam	Cam	78
	Subframe	Cam	Cam	78
	Subframe	Cam	Cam	78
	Subframe	Cam	Cam	8
Cam	Cam	Cam	Cam	8

Wheel Alignment Adjustments

Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes
Strut(AU)	Strut(U)	Cam	Cam	lbs	5
Strut(AU)	Strut(U)	Cam	Cam	lbs	5
Strut(AU)	Strut(U)	Cam	Cam	lbs	5
Strut(AU)	Strut(U)	Cam	Cam	lbs	5
	Knuckle	Cam	Arm-Slot	lbs	5
	Knuckle	Cam	Arm-Slot	lbs	5
	Knuckle	Cam	Cam	lbs	5
	Knuckle	Cam	Cam	lbs	5
	Knuckle	Cam	Arm-Slot	lbs	5
	Knuckle	Cam	Cam	lbs	5
	Knuckle	Cam	Cam	lbs	5
	Knuckle	Cam	Arm-Slot	lbs	5
	Knuckle	Cam	Arm-Slot	lbs	5
Strut(AU)	Strut(AU)	Cam	Arm-Slot	lbs	5
Strut(AU)	Strut(AU)			lbs	5
Strut(AU)	Strut(U)	Cam	Arm-Slot	lbs	5
Strut(AU)	Strut(U)	Cam	Arm-Slot	lbs	5
Strut(AU)	Strut(U)	Cam	Cam	lbs	5
Strut(AU)	Strut(U)	Cam	Cam	lbs	5
	Knuckle	Cam	Cam	lbs	5
	Knuckle	Cam	Cam	lbs	5

BENTLEY

Model	Years	★
4D Continental (GT, Flying Spur, GTC)	04-18	★
4D Continental GT	20-23	★
4D Continental GTC	20-23	★
4D Continental Flying Spur	20-23	★
4 Mulsanne	11-20	★

BMW

Model	Years	★
4D 1 Series (E82/E88)	08-13	★
4D 1 Series (E82) M Coupe / eDrive1	11-11	★
4D 1 Series (E82/E88) w/AFS	08-13	★
4D X1 (E84) 4X2	12-15	★
4D X1 (E84) 4X4	12-15	★
4D X1 (F48)	16-22	★
4D X1 (U11)	23-23	★
4D 2 Series (F22/F23)	14-21	★
4D M2 Coupe (F87)	16-21	★
4D 2 Series Gran Coupe (F44)	20-23	★
4D 2 Series (G42)	22-23	★
4D M2 (G87)	23-23	★
4D X2 (F39)	18-23	★
4D X2 (F39) MPA M35i	19-23	★
4D 3 Series (E36) exc/318ti	92-99	★
TD 3 Series (E36) 318ti	95-99	★
4D 3 Series (E46)	99-99	★
4D 3 Series (E46)	00-06	★
4D 3 Series (E90/E91/E92/E93)	06-13	★
4D 3 Series (E90/E91/E92/E93) w/AFS	06-13	★
4D 3 Series (F30)	12-18	★
4D 3 Series (F30) PHEV	16-18	★

Safety System Alignment Resets



ESC	ACC	LDW	4WS	NVS	AFS	RCS
ESC	ACC					
ESC	ACC	LDW		NVS		RCS
ESC	ACC	LDW		NVS		RCS
ESC	ACC	LDW	4WS	NVS	AFS	RCS
ESC	ACC					

Safety System Alignment Resets



	ESC	EPS	ACC	LDW	AEB	4WS	NVS	AFS	RCS
	ESC		ACC						
	ESC		ACC						
	ESC		ACC					AFS	
	ESC		ACC						
	ESC		ACC						
		EPS							
		EPS							
		EPS	ACC						
		EPS							
		EPS	ACC						
		EPS	ACC						
		EPS	ACC						
		EPS							
		EPS							
	ESC								
	ESC		ACC						
	ESC		ACC					AFS	
		EPS	ACC						
		EPS	ACC						

Wheel Alignment Key

- | | |
|----|---|
| | Additional parts/procedure might be needed |
| | Aftermarket parts required |
| 4 | 4-wheel alignment, equipped with standard factory adjustments |
| 4D | 4-wheel alignment, may require additional parts/procedures |
| 4S | 4-wheel alignment, aftermarket full contact rear shims for rear adjustment |
| T | Thrust-line alignment (no rear adjustments) |
| TD | Thrust-line alignment (no rear adjustments) may require additional parts/procedures |

Description

- | | |
|---|---|
| ✓ | Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator |
| ★ | Vehicle requires safety system alignment or notes |
| | Reset Required - Standard feature Use CodeLink or OEM scan tool |
| | Optional feature - Reset required if present Use CodeLink or OEM Scan Tool |
| | Optional feature - Reset required if present, Use OEM scan tool (No CL support yet) |
| | Reset required - Standard Feature, Use OEM scan tool (No CL support yet) |

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

- | | |
|-----|---|
| 5 | Special wheel adapters recommended by OEM. |
| 7 | Requires Audi/VW OEM tools/procedures to perform raised toe adjustment |
| 8 | Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment. |
| lbs | Requires loading of vehicle before alignment |

LDW	Lane Departure Warning	(Bentley) ESP	Electronic Stability Program
ESC	Electronic Stability Control	(BMW) DSC	Dynamic Stability Control
ACC	Adaptive Cruise Control	AFS	Active Front Steering
4WS	Four-Wheel Steering	EPS	Electronic Power Steering
Safety System Key		NVS	Night Vision System
		RCS	Rear Camera System

No Additional Requirements

Wheel Alignment Adjustments						BMW		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes	Model	Years	★	ESC	EPS	ACC	LDW	AEB	4WS	NVS	AFS	RCS
	Knuckle	Cam	Cam	lbs 5	5	4D 3 Series (F31)	14-19	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D 3 Series Gran Turismo (F34)	14-19	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D 3 Series M3 (F80)	15-18	★		EPS							
	Knuckle	Cam	Cam	lbs 5	5	4D 3 Series (G20)	19-23	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D 3 Series (G20) PHEV	21-23	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D 3 Series M3 (G80)	21-24	★		EPS	ACC						
Strut(AU) Strut(AU)				lbs 5	5	TD Z3 (E36) incl. M Roadster/Coupe	96-99	★									
Strut(AU) Strut(AU)				lbs 5	5	TD Z3 (E36) incl. M Roadster/Coupe	00-02	★	ESC								
	Strut(U)	Cam	Arm-Slot	lbs 5	5	4 X3 (E83)	04-10	★	ESC								
	Knuckle	Cam	Cam	lbs 5	5	4D X3 (F25)	11-17	★									
	Knuckle	Cam	Cam	lbs 5	5	4D X3 (G01)	18-21	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D X3 (G01) PHEV	20-21	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D X3 (G01) All w/AFS	18-21	★		EPS	ACC					AFS	
	Knuckle	Cam	Cam	lbs 5	5	4D X3 (G01)	22-23	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D X3 (G01) All w/AFS	22-23	★		EPS	ACC					AFS	
	Knuckle	Cam	Cam	lbs 5	5	4D X3M (F97)	20-23	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D 4 Series (F32/F33)	14-20	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D 4 Series Gran Coupe (F36)	15-20	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D 4 Series M4 (F82/F83)	15-20	★		EPS							
	Knuckle	Cam	Cam	lbs 58	58	4D 4 Series M4 GTS (F82)	16-16	★		EPS							
	Knuckle	Cam	Cam	lbs 5	5	4D 4 Series (G22/G23)	21-24	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D 4 Series Grand Coupe (G26)	22-24	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D 4 Series M4 (G82/G83)	21-24	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D X4 (F26)	15-18	★									
	Knuckle	Cam	Cam	lbs 5	5	4D X4 (G02)	19-23	★		EPS	ACC						
	Knuckle	Cam	Cam	lbs 5	5	4D X4 (G02) w/AFS	19-23	★		EPS	ACC					AFS	
	Knuckle	Cam	Cam	lbs 5	5	4D X4M (F98)	20-23	★		EPS	ACC						
Strut(AU) Strut(U)		Cam	Arm-Slot	lbs 5	5	4D Z4 (E85/E86) incl. M Roadster/Coupe	03-08	★	ESC								
	Strut(U)	Cam	Arm-Slot	lbs 5	5	4 Z4 (E89)	09-16	★	ESC								
	Knuckle	Cam	Cam	lbs 5	5	4D Z4 (G29)	19-23	★		EPS	ACC						
Strut(AU) Strut(AU)		Cam	Cam	lbs 5	5	4D 5 Series (E39)	97-98	★									

Wheel Alignment Key	
▲	Additional parts/procedure might be needed
■	Aftermarket parts required
4	4-wheel alignment, equipped with standard factory adjustments
4D	4-wheel alignment, may require additional parts/procedures
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T	Thrust-line alignment (no rear adjustments)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper

Notes

- 5 Special wheel adapters recommended by OEM.
- 8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.
- lbs Requires loading of vehicle before alignment

Description	
■	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
■	Reset Required - Standard feature Use CodeLink or OEM scan tool
■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ACC	Adaptive Cruise Control	(BMW) DSC	Dynamic Stability Control
EPS	Electronic Power Steering	AFS	Active Front Steering
ESC	Electronic Stability Control	EPS	Electronic Power Steering

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments						BMW		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes	Model	Years	★	ESC	EPS	ACC	AEB	LDW	4WS	NVS	AFS	RCS
Strut(AU)	Strut(AU)	Cam	Cam	lbs	5	4D 5 Series (E39)	99-99	★	ESC								
Strut(AU)	Strut(AU)	Cam	Cam	lbs	5	4D 5 Series (E39)	00-03	★	ESC								
	Strut(U)	Cam	Cam	lbs	5	4 5 Series (E60/E61)	04-10	★	ESC		ACC						
	Strut(U)	Cam	Cam	lbs	5	4 5 Series (E60/E61) w/AFS	04-10	★	ESC		ACC					AFS	
	Ctrl-Arm	Cam	Cam	lbs	5	4D 5 Series (F10)	11-16	★			ACC						
	Ctrl-Arm	Cam	Cam	lbs	5	4D 5 Series (F10) w/AFS/4WS	11-16	★	ESC		ACC			4WS		AFS	
	Ctrl-Arm	Cam	Cam	lbs	5	4D 5 Series Gran Turismo (F07)	10-17	★			ACC						
	Ctrl-Arm	Cam	Cam	lbs	5	4D 5 Series Gran Turismo (F07) w/AFS/4WS	10-17	★	ESC		ACC			4WS		AFS	
	Ctrl-Arm	Cam	Cam	lbs	5	4D 5 Series (G30)	17-23	★		EPS	ACC						
	Ctrl-Arm	Cam	Cam	lbs	5	4D 5 Series (G30) w/AFS/4WS	17-23	★		EPS	ACC			4WS		AFS	
	Ctrl-Arm	Cam	Cam	lbs	5	4D M5 (F90)	18-20	★		EPS	ACC						
	Ctrl-Arm	Cam	Cam	lbs	5	4D M5 (F90)	21-23	★		EPS	ACC						
	Strut(U)	Cam	Cam	lbs	5	4 X5 (E53)	00-06	★	ESC								
	Ctrl-Arm	Cam	Cam	lbs	5	4D X5 (E70)	07-13	★	ESC		ACC						
	Ctrl-Arm	Cam	Cam	lbs	5	4D X5 (E70) M	10-13	★	ESC		ACC						
	Ctrl-Arm	Cam	Cam	lbs	5	4D X5 (E70) All w/AFS	07-13	★	ESC		ACC					AFS	
	Ctrl-Arm	Cam	Cam	lbs	5	4D X5 (F15)	14-18	★		EPS	ACC						
	Ctrl-Arm	Cam	Cam	lbs	5	4D X5 (F15) w/AFS	14-18	★	ESC	EPS	ACC					AFS	
	Ctrl-Arm	Cam	Cam	lbs	5	4D X5 M (F85)	15-18	★		EPS	ACC						
	Ctrl-Arm	Cam	Cam	lbs	5	4D X5 (G05)	19-23	★		EPS	ACC						
	Ctrl-Arm	Cam	Cam	lbs	5	4D X5 (G05) w/AFS/4WS	19-23	★		EPS	ACC			4WS		AFS	
	Ctrl-Arm	Cam	Cam	lbs	5	4D X5 (G05) Hybrid	20-23	★		EPS	ACC			4WS		AFS	
	Ctrl-Arm	Cam	Cam	lbs	5	4D X5 (G05) incl. Hybrid	24-24	★		EPS	ACC			4WS		AFS	
	Ctrl-Arm	Cam	Cam	lbs	5	4D X5M (F95)	20-24	★		EPS	ACC			4WS		AFS	
	Strut(U)	Cam	Cam	lbs	5	4 6 Series (E63/E64)	04-10	★	ESC		ACC						
	Strut(U)	Cam	Cam	lbs	5	4 6 Series (E63/E64) w/AFS	04-10	★	ESC		ACC					AFS	
	Ctrl-Arm	Cam	Cam	lbs	5	4D 6 Series (F12/F13)	12-18	★			ACC						
	Ctrl-Arm	Cam	Cam	lbs	5	4D 6 Series (F12/F13) w/AFS/4WS	12-18	★	ESC		ACC			4WS		AFS	
	Ctrl-Arm	Cam	Cam	lbs	5	4D 6 Series Gran Coupe (F06)	13-19	★			ACC						

Wheel Alignment Key	
▲	Additional parts/procedure might be needed
■	Aftermarket parts required
4	4-wheel alignment, equipped with standard factory adjustments
4D	4-wheel alignment, may require additional parts/procedures
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T	Thrust-line alignment (no rear adjustments)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper

Notes

- 5 Special wheel adapters recommended by OEM.
 lbs Requires loading of vehicle before alignment

Description	
■	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
■	Reset Required - Standard feature Use CodeLink or OEM scan tool
■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ACC	Adaptive Cruise Control	(BMW) DSC	Dynamic Stability Control
EPS	Electronic Power Steering	4WS	Four-Wheel Steering
ESC	Electronic Stability Control	AFS	Active Front Steering
		EPS	Electronic Power Steering

No Additional Requirements

Wheel Alignment Adjustments						BMW			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes	Model	Years	★		EPS	ACC		LDW	4WS	NVS	AFS	RCS	
	Ctrl-Arm	Cam	Cam	lbs 5		4D 6 Series Gran Coupe (F06) w/AFS/4WS	13-19	★	ESC		ACC			4WS		AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D 6 Series Gran Turismo (G32)	18-19	★		EPS	ACC							
	Ctrl-Arm	Cam	Cam	lbs 5		4D 6 Series Gran Turismo (G32) w/AFS/4WS	18-19	★		EPS	ACC			4WS		AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D X6 (E71)	08-14	★	ESC		ACC							
	Ctrl-Arm	Cam	Cam	lbs 5		4D X6 (E71) w/AFS	08-14	★	ESC		ACC					AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D X6 Hybrid (E72)	10-11	★	ESC		ACC							
	Ctrl-Arm	Cam	Cam	lbs 5		4D X6 Hybrid (E72) w/AFS	10-11	★	ESC		ACC					AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D X6 (F16)	15-19	★		EPS	ACC							
	Ctrl-Arm	Cam	Cam	lbs 5		4D X6 (F16) w/AFS	15-19	★	ESC	EPS	ACC					AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D X6 M (F86)	15-19	★		EPS	ACC							
	Ctrl-Arm	Cam	Cam	lbs 5		4D X6 (G06)	20-23	★		EPS	ACC			4WS				
	Ctrl-Arm	Cam	Cam	lbs 5		4D X6 (G06) w/AFS	20-23	★		EPS	ACC			4WS		AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D X56 (G06) incl. Hybrid	24-24	★		EPS	ACC			4WS		AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D X6M (F96)	20-24	★		EPS	ACC			4WS		AFS		
		Cam	Cam	lbs 5		4 7 Series (E38)	95-97	★										
		Cam	Cam	lbs 5		4 7 Series (E38)	98-01	★	ESC		ACC							
	Strut(U)	Cam	Cam	lbs 5		4 7 Series (E65/E66)	02-08	★	ESC		ACC							
	Ctrl-Arm	Cam	Cam	lbs 5		4D 7 Series (F01/F02/F04)	09-15	★			ACC							
	Ctrl-Arm	Cam	Cam	lbs 5		4D 7 Series (F01/F02/F04) w/AFS/4WS	09-15	★	ESC		ACC			4WS		AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D 7 Series (G11/G12)	16-22	★		EPS	ACC							
	Ctrl-Arm	Cam	Cam	lbs 5		4D 7 Series (G11/G12) w/AFS/4WS	16-22	★		EPS	ACC			4WS		AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D 7 Series (G70)	23-23	★		EPS								
	Ctrl-Arm	Cam	Cam	lbs 5		4D X7 (G07)	19-22	★		EPS	ACC							
	Ctrl-Arm	Cam	Cam	lbs 5		4D X7 (G07) w/AFS/4WS	19-22	★		EPS	ACC			4WS		AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D X7 (G07)	23-24	★		EPS	ACC							
	Ctrl-Arm	Cam	Cam	lbs 5		4D X7 (G07) w/AFS/4WS	23-24	★		EPS	ACC			4WS		AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D XM (G09)	23-23	★		EPS	ACC							
		Cam	Cam	lbs 5		4 8 Series (E31)	91-97	★										
	Ctrl-Arm	Cam	Cam	lbs 5		4D 8 Series (G14/G15/G16)	19-24	★		EPS	ACC							
	Ctrl-Arm	Cam	Cam	lbs 5		4D 8 Series (G14/G15/G16) w/AFS/4WS	19-24	★		EPS	ACC			4WS		AFS		
	Ctrl-Arm	Cam	Cam	lbs 5		4D M8 (F91/F92/F93)	20-24	★		EPS	ACC			4WS		AFS		
		Cam	Cam	lbs 5		4 Z8 (E52)	00-03	★	ESC									

Wheel Alignment Key		
Additional parts/procedure might be needed		
Aftermarket parts required		
4 4-wheel alignment, equipped with standard factory adjustments		
4D 4-wheel alignment, may require additional parts/procedures		
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment		
T Thrust-line alignment (no rear adjustments)		
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures		

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

5	Special wheel adapters recommended by OEM.
lbs	Requires loading of vehicle before alignment

Description	
Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator	
★ Vehicle requires safety system alignment or notes	
Reset Required - Standard feature Use CodeLink or OEM scan tool	
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool	
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)	
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)	

ACC	Adaptive Cruise Control	(BMW) DSC	Dynamic Stability Control
EPS	Electronic Power Steering	4WS	Four-Wheel Steering
ESC	Electronic Stability Control	AFS	Active Front Steering

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments						BMW <i>i</i>			Safety System Alignment Resets												
Front Caster	Front Camber	Rear Camber	Rear Toe	Lbs	Notes	Model	Years	★		ESC	EPS	ACC		LDW	AEB	4WS	NVS	AFS	FCW	RCS	
	Knuckle	Cam	Cam	lbs 5		4D i3 (I01)	14-21	★													
	Knuckle	Cam	Cam	lbs 5		4D i4 (G26 BEV)	22-23	★		EPS	ACC										
	Ctrl-Arm	Cam	Cam	lbs 5		4D i7 (G70 BEV)	23-23	★		EPS	ACC										
	Ctrl-Arm	Cam	Cam	lbs 5		4D i8 (I12)	14-20	★													
	Ctrl-Arm	Cam	Cam	lbs 5		4D iX (I20)	22-24	★		EPS											
Wheel Alignment Adjustments						BRIGHTDROP			Safety System Alignment Resets												
Front Caster	Front Camber	Rear Camber	Rear Toe		Notes	Model	Years	★		ESC	ACC	LDW		AEB	4WS	NVS	AFS	FCW	RCS		
Cam(K)	Cam(K)					TD EV600	22-23	★		ESC											
Wheel Alignment Adjustments						BUICK			Safety System Alignment Resets												
Front Caster	Front Camber	Rear Camber	Rear Toe		Notes	Model	Years	★		ESC	ACC	LDW		AEB	4WS	NVS	AFS	FCW	RCS		
	Cam(K)					TD Cascada	16-19	★		↑ ESC											
	Strut(L)	Shim(A)	Shim(A)			4S Century	82-96														
	Cam(K)	Cam(K)	Tie Rod			4D Century	97-05														
	Strut(L)	Cam	Cam			4D Enclave	08-17	★		ESC											
	Cam/Bolt(K)	Cam	Cam			4D Enclave	18-23	★		↑ ESC											
	Cam/Bolt(K)					TD Encore	13-22	★		↑ ESC											
	Cam/Bolt(K)					TD Encore GX	20-23	★		↑ ESC											
	Cam/Bolt(K)	Cam	Cam			4D Envision	16-23	★		ESC											
	Cam(K)	Cam(K)	Tie Rod			4D LaCrosse/Allure	05-08														
	Cam(K)	Cam(K)	Tie Rod			4D LaCrosse/Allure	09-09	★		ESC											
	Strut(L)	Cam(K)	Cam(K)			4D LaCrosse/Allure 4X2 RPO GNA/GNC	10-16	★		↑ ESC											
	Cam/Bolt(K)	Cam(K)	Cam(K)			4D LaCrosse/Allure 4X2 RPO GNB/GNC	10-16	★		↑ ESC											
	Cam/Bolt(K)	Cam(K)	Cam			4D LaCrosse/Allure 4X2 RPO GNB/GNE	10-16	★		↑ ESC											
	Strut(L)	Cam(K)	Cam			4D LaCrosse/Allure 4X4	10-16	★		↑ ESC											
	Cam/Bolt(K)	Cam	Cam			4D LaCrosse/Allure	17-19	★		↑ ESC											

Wheel Alignment Key	
Additional parts/procedure might be needed	
Aftermarket parts required	
4 4-wheel alignment, equipped with standard factory adjustments	
4D 4-wheel alignment, may require additional parts/procedures	
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment	
T Thrust-line alignment (no rear adjustments)	
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

5	Special wheel adapters recommended by OEM.
lbs	Requires loading of vehicle before alignment

Description	
Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator	
★ Vehicle requires safety system alignment or notes	
Reset Required - Standard feature Use CodeLink or OEM scan tool	
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool	
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)	
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)	

ACC	Adaptive Cruise Control	(BMW) DSC	Dynamic Stability Control
EPS	Electronic Power Steering	4WS	Four-Wheel Steering
ESC	Electronic Stability Control	AFS	Active Front Steering

Safety System Key

↑	Requires CodeLink® OEM exp. Cable
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Wheel Alignment Adjustments					BUICK			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model		Years	★		ESC	ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS
Strut(U)	Strut(L)	Strut(L)	Tie Rod		4D	LeSabre	86-99											
Strut(U)	Strut(L)	Shim(A)	Cam		4D	LeSabre	00-05											
Strut(U)	Strut(L)	Shim(A)	Cam		4D	Lucerne	06-11											
Strut(U)	Strut(L)	Strut(L)	Tie Rod		4D	Park Avenue	85-96											
Strut(U)	Strut(L)	Shim(A)	Cam		4D	Park Avenue	97-05											
Arm-Slot Arm-Slot					T	Rainier	04-07											
	Strut(U)	Cam(K)	Arm-Slot		4D	Regal	90-96											
	Cam(K)	Cam(K)	Tie Rod		4D	Regal	97-04											
	Strut(L)	Cam(K)	Cam(K)		4D	Regal 4X2 RPO GNA	11-17	★	↑	↓	ESC							
	Cam/Bolt(K)	Cam(K)	Cam(K)		4D	Regal 4X2 RPO GNB	11-17	★	↑	↓	ESC							
	Cam/Bolt(K)	Cam(K)	Cam		4D	Regal 4X4	14-17	★	↑	↓	ESC							
		Cam	Cam		4	Regal	18-20	★	↑	↓	ESC							
	Cam(K)	Cam	Tie Rod		4D	Rendezvous	02-07											
Strut(U)	Strut(L)		Cam		4D	Riviera	95-99											
Shim(O)	Shim(O)				TD	Roadmaster/Wagon	91-96											
	Cam(K)	Shim(A)	Shim(A)		4S	Skylark	86-98											
	Cam(K)	Cam	Tie Rod		4D	Terraza	05-06											
	Cam(K)	Shim(A)	Shim(A)		4S	Terraza	07-07											
	Cam(K)	Shim(A)	Shim(A)		4S	Verano	12-17	★	↑	↓	ESC							

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ESC Electronic Stability Control (Buick) Stabilitrak

Safety System Key

↑ Requires CodeLink® OEM exp. Cable

Wheel Alignment Adjustments					CADILLAC			Safety System Alignment Resets								
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	 ESC	ACC	LDW	AEB	4WS	 NVS	AFS	FCW	RCS
	Strut(L)	Cam/Bolt (K)	Cam/Bolt (K)		4D ATS/ATS-V	13-19	★									
	Cam/Bolt(K)	Cam/Bolt (K)	Cam/Bolt (K)		4D CT4	20-23	★									
	Cam/Bolt(K)	Cam/Bolt (K)	Cam/Bolt (K)		4D CT4-V Blackwing	22-23	★									
	Cam/Bolt(K)	Cam/Bolt (K)	Cam/Bolt (K)		4D CT5	20-23	★									
	Cam/Bolt(K)	Cam/Bolt (K)	Cam/Bolt (K)		4D CT5-V Blackwing	22-23	★									
Arm-Slot	Arm-Slot		Cam		4 CT6	16-20	★									
Arm-Slot	Arm-Slot		Cam		4 CT6 w/Rear Steering	16-20	★									
Arm-Slot	Arm-Slot	Arm-Slot	Tie Rod		4 CTS/CTS-V	03-13										
	Strut(L)	Cam/Bolt (K)	Cam/Bolt (K)		4D CTS Sedan	14-19	★									
Arm-Slot	Arm-Slot	Arm-Slot	Tie Rod		4 CTS Coupe/Wagon	14-14										
Arm-Slot	Arm-Slot	Arm-Slot	Tie Rod		4 CTS-V (Sedan/Coupe/Wagon)	14-15										
	Strut(L)	Cam/Bolt (K)	Cam/Bolt (K)		4D CTS-V	16-19	★									
	Strut(L)		Tie Rod		4 Catera	97-01										
Strut(U)	Strut(L)	Arm-Slot	Arm-Slot		4D DeVille	94-99										
Strut(U)	Strut(L)	Shim(A)	Cam		4D DeVille (incl. DTS/DHS)	00-05										
Strut(U)	Strut(L)	Shim(A)	Cam		4D DTS	06-11										
	Cam/Bolt(K)				TD ELR	14-16	★									
Strut(U)	Strut(L)	Arm-Slot	Arm-Slot		4D Eldorado	93-02										
Cam(K)	Cam(K)				TD Escalade	99-00										
Cam	Cam				T Escalade (incl. EXT/ESV)	02-14										
Cam	Cam				T Escalade (incl. ESV)	15-20	★									
Cam	Cam	Cam	Cam		4 Escalade (incl. ESV)	21-23	★									
Shim(O)	Shim(O)				TD Fleetwood Brougham (RWD)	93-96										
Strut(U)	Strut(U)	Cam	Cam		4D Lyriq	23-23	★									
Arm-Slot	Arm-Slot	Arm-Slot	Tie Rod		4D SRX	04-09										
	Strut(L)	Cam	Cam		4D SRX	10-16	★									
Arm-Slot	Arm-Slot	Arm-Slot	Tie Rod		4D STS	05-11										
Strut(U)	Strut(L)	Arm-Slot	Arm-Slot		4D Seville	93-97										
Strut(U)	Strut(L)	Shim(A)	Cam		4D Seville	98-04										
Cam	Cam	Cam	Tie Rod		4 XLR	04-08										

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

4WS Four-Wheel Steering	(Buick)	Stabilitrak
ESC Electronic Stability Control	(Cadillac)	Stabilitrak

Safety System Key

↑ Requires CodeLink® OEM exp. Cable

Wheel Alignment Adjustments					CADILLAC		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS
Cam	Cam	Cam	Tie Rod		4 XLR	09-09	★	ESC								
	Cam/Bolt(K)	Cam	Cam		4D XT4	19-23	★	ESC								
	Cam/Bolt(K)	Cam	Cam		4D XT5	17-23	★	↑ ESC								
	Cam/Bolt(K)	Cam	Cam		4D XT6	20-23	★	↑ ESC								
	Strut(L)	Cam(K)	Cam		4D XTS RPO GNA (MacPherson Strut)	13-19	★	↑ ESC								
	Cam/Bolt(K)	Cam(K)	Cam		4D XTS RPO GNB (HiPer Strut)	13-19	★	↑ ESC								
Wheel Alignment Adjustments					CHEVROLET		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS
Shim(O)	Shim(O)				TD Astro 4X2	85-05										
Cam	Cam				T Astro 4X4	90-05										
Cam	Cam				T Avalanche	02-13										
	Cam(K)	Shim(A)	Shim(A)		4S Aveo w/o ABS	04-11										
	Cam(K)				TD Aveo w/ABS	04-11										
	Cam(K)	Shim(A)	Shim(A)		4S Beretta	87-96										
Shim(O)	Shim(O)				TD Blazer (S10) 4X2	83-05										
Cam	Cam				T Blazer (S10) 4X4	83-05										
	Cam/Bolt(K)	Cam	Cam		4D Blazer	19-23	★	↑ ESC								
	Cam/Bolt(K)				TD Bolt EV	17-23	★	↑ ESC								
	Cam/Bolt(K)				TD Bolt EUV	22-23	★	ESC								
Cam(K)	Cam(K)				TD C1500-C3500 4X2 Pickup	88-00										
Wedge					TD C3500 HD 4X2	88-02										
Cam(K)	Cam(K)				TD K1500-K3500 4X4 Pickup	88-00										
Cam	Cam				T Silverado 1500	99-13										
Cam	Cam		Tie Rod		4 Silverado 1500 w/Quadrasteer (4WS)	02-05	★					4WS				
Cam	Cam				T Silverado 1500	14-18	★	↑ ESC								
Cam	Cam				T Silverado 1500 LTD (GMT K2XX)	19-19	★	↑ ESC								
Cam	Cam				T Silverado 1500 (GMT T1XX)	19-21	★	ESC								
Cam	Cam				T Silverado 1500 LTD (GMT T1XX I)	22-22	★	ESC								
Cam	Cam				T Silverado 1500 (GMT T1XX II)	22-23	★	ESC								
Cam	Cam				T Silverado 2500/3500	99-14										

Wheel Alignment Key	
▲	Additional parts/procedure might be needed
■	Aftermarket parts required
4	4-wheel alignment, equipped with standard factory adjustments
4D	4-wheel alignment, may require additional parts/procedures
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T	Thrust-line alignment (no rear adjustments)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description	
■	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
■	Reset Required - Standard feature Use CodeLink or OEM scan tool
■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

4WS	Four-Wheel Steering	(Cadillac/Chevrolet) Stabilitrak
ESC	Electronic Stability Control	

Safety System Key

↑ Requires CodeLink® OEM exp. Cable

Wheel Alignment Adjustments					CHEVROLET			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	EPS	ACC	LDW	AEB	4WS	NVS	AFS	FCW
Cam	Cam		Tie Rod		4 Silverado 2500 w/Quadrasteer (4WS)	02-05	★							4WS			
Cam	Cam				T Silverado 2500/3500	15-24	★	↓	ESC								
					T Silverado 4500HD/5500HD/6500H D	19-23	★		ESC								
Arm-Slot	Arm-Slot				TD Camaro	93-02											
	Strut(L)	Cam	Cam		4 Camaro	10-15	★	↓	ESC								
	Cam/Bolt (K)	Cam/Bolt (K)	Cam/Bolt (K)		4D Camaro	16-23	★		ESC								
Shim(O)	Shim(O)				TD Caprice	77-96											
Bolt Kit	Strut	Cam	Cam		4D Caprice PPV	11-13	★		ESC								
Bolt Kit	Strut	Cam	Cam		4D Caprice PPV	14-17	★	↓	ESC								
	Cam(K)	Cam	Cam(K)		4D Captiva Sport	12-15	★		ESC								
	Cam(K)	Shim(A)	Shim(A)		4S Cavalier	82-05											
					T City Express	15-18	★		ESC								
	Strut(L)		Cam		4 Classic (P90 Malibu)	04-05											
	Strut(L)	Cam	Cam		4 Classic (Epsilon Malibu)	08-08	★			EPS							
	Cam(K)	Shim(A)	Shim(A)		4S Cobalt	05-10											
	Cam(K)				TD Cobalt SS/Sport (FE3/FE5 Susp)	05-07											
	Cam(K)				TD Cobalt SS/Sport (FE3/FE5 Susp)	08-10	★		ESC								
Cam	Cam				T Colorado Pickup	04-12											
Cam	Cam				T Colorado Pickup	15-22	★		ESC								
Cam	Cam				T Colorado Pickup	23-23	★		ESC								
	Cam(K)	Shim(A)	Shim(A)		4S Corsica	87-96											
Shim(O)	Shim(O)	Cam	Tie Rod		4D Corvette	84-96											
Cam	Cam	Cam	Tie Rod		4 Corvette	97-08											
Cam	Cam	Cam	Tie Rod		4 Corvette	09-13	★		ESC								
Cam	Cam	Cam	Cam	4	4 Corvette	14-19	★	↓	ESC								
Cam	Cam	Cam	Tie Rod	4	4 Corvette	20-23	★		ESC								
	Cam(K)	Shim(A)	Shim(A)		4S Cruze	11-15	★	↓	ESC								
	Cam(K)				TD Cruze	16-19	★		ESC								
	Cam(K)	Shim(A)	Shim(A)		4S Cruze Limited	16-16	★	↓	ESC								
		Cam/Bolt (K)	Cam		4D Epica	04-11											

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

4 May require special OEM procedures/tools

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

4WS Four-Wheel Steering	(Chevrolet)	Stabilitrak
ESC Electronic Stability Control	EPS	Electronic Power Steering

Safety System Key

↓ Requires CodeLink® OEM exp. Cable

Wheel Alignment Adjustments					CHEVROLET		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	EPS	ACC	LDW	AEB	4WS	NVS	AFS	FCW
	Cam(K)	Cam	Cam(K)		4D Equinox	05-09										
	Cam(K)	Cam	Cam(K)		4D Equinox	10-17	★	↑↓	ESC							
	Cam/Bolt(K)	Cam	Cam		4D Equinox	18-23	★	↑↓	ESC							
Shim(O)	Shim(O)				TD G10-G30 Van	77-96										
Cam(K)	Cam(K)				TD Express / Van	96-02										
Cam	Cam				T Express / Van	03-17										
Cam	Cam				T Express / Van	18-23	★		ESC							
	Cam(K)	Shim(A)	Shim(A)		4S HHR	06-07										
	Cam(K)	Shim(A)	Shim(A)		4S HHR	08-08	★		ESC							
	Cam(K)	Shim(A)	Shim(A)		4S HHR	09-11	★		ESC							
	Cam(K)				TD HHR SS	08-10	★		ESC							
Shim(O)	Shim(O)				TD Impala	77-96										
	Cam(K)	Cam(K)	Tie Rod		4D Impala	00-12										
	Cam(K)	Cam(K)	Tie Rod		4D Impala	13-13	★		ESC							
	Cam(K)	Cam(K)	Cam(K)		4D Impala	14-20	★	↑↓	ESC							
	Cam(K)	Cam(K)	Tie Rod		4D Impala Limited	14-16	★		ESC							
	Strut(U)	Cam(K)	Arm-Slot		4D Lumina	90-01										
	Strut(L)	Shim(A)	Shim(A)		4S Lumina APV	90-96										
	Strut(L)	Cam/Bolt (K)	Cam		4D Malibu	97-03										
	Strut(L)	Cam	Cam		4D Malibu w/Electric Power Steering (EPS)	04-12	★			EPS						
	Strut(L)	Cam	Cam		4D Malibu w/Hydraulic Power Steering	06-12										
	Strut(L)	Cam(K)	Cam(K)		4D Malibu	13-15	★	↑↓	ESC							
	Bolt Kit	Cam(K)	Cam(K)		4D Malibu	16-23	★		ESC							
	Strut(L)	Cam(K)	Cam(K)		4D Malibu Limited	16-16	★	↑↓	ESC							
	Cam(K)		Cam		4D Metro	98-01										
	Strut(U)	Cam(K)	Arm-Slot		4D Monte Carlo	95-99										
	Cam(K)	Cam(K)	Tie Rod		4D Monte Carlo	00-07										
			Cam		4 Optra	04-11										
	Cam(K)	Shim(A)	Shim(A)		4S Orlando	12-14	★		ESC							
Shim(O)	Shim(O)				TD P-Chassis	80-99										
	Cam/Bolt(K)		Tie Rod		4D Prizm	98-02										
Shim(O)	Shim(O)				TD S10 Pickup 4X2	82-03										
Cam	Cam				T S10 Pickup 4X4	84-04										
Bolt Kit	Strut	Cam	Cam		4D SS	14-17	★	↑↓	ESC							

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

4 May require special OEM procedures/tools

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

EPS Electronic Power Steering (Chevrolet)	Stabilitrak
ESC Electronic Stability Control	

Safety System Key

↑ Requires CodeLink® OEM exp. Cable

Wheel Alignment Adjustments					CHEVROLET			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS
Arm-Slot Arm-Slot					T	SSR	03-06										
	Cam/Bolt(K)				TD	Sonic	12-20	★	↕	ESC							
	Cam/Bolt(K)				TD	Spark	13-22	★	↕	ESC							
	Cam/Bolt(K)				TD	Spark EV	14-16	★		ESC							
Cam(K)	Cam(K)				TD	Suburban	92-99										
Cam	Cam				T	Suburban	00-14										
Cam	Cam		Tie Rod		4	Suburban w/QuadraSteer (4WS)	03-05	★					4WS				
Cam	Cam				T	Suburban	15-20	★	↕	ESC							
Cam	Cam				T	Suburban HD	16-19										
Cam	Cam	Cam	Cam		4	Suburban	21-23	★		ESC							
Cam(K)	Cam(K)				TD	Tahoe	95-99										
Cam(K)	Cam(K)				TD	Tahoe Limited / Z71 (GMT 400)	00-00										
Cam	Cam				T	Tahoe (GMT 800)	00-14										
Cam	Cam				T	Tahoe	15-20	★	↕	ESC							
Cam	Cam	Cam	Cam		4	Tahoe	21-23	★		ESC							
	Cam(K)				TD	Tracker	98-04										
Shim(O)	Shim(O)				TD	Trailblazer 4X2	99-01										
Cam	Cam				T	Trailblazer 4X4	99-01										
Arm-Slot Arm-Slot					T	Trailblazer	02-09										
	Cam/Bolt(K)				TD	Trailblazer	21-23	★	↕	ESC							
	Strut(L)	Cam	Cam		4D	Traverse	09-17	★		ESC							
	Cam/Bolt(K)	Cam	Cam		4D	Traverse	18-23	★	↕	ESC							
	Cam/Bolt(K)				TD	Trax	13-22	★	↕	ESC							
	Cam/Bolt(K)				TD	Trax	24-24	★		ESC							
	Cam(K)	Shim(A)	Shim(A)		4S	Uplander 4X2	05-09										
	Cam(K)	Cam	Tie Rod		4D	Uplander 4X4	05-06										
	Cam(K)	Shim(A)	Shim(A)		4S	Venture 4X2	97-05										
	Cam(K)	Cam	Tie Rod		4D	Venture 4X4	02-04										
	Cam(K)				TD	Volt	11-19	★	↕	ESC							

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

4WS Four-Wheel Steering	(Chevrolet) Stabilitrak
ESC Electronic Stability Control	

Safety System Key

↓ Requires CodeLink® OEM exp. Cable

Wheel Alignment Adjustments					CHRYSLER		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	EPS	ACC	LDW AEB 4WS NVS FCW
Subframe	Sub/Cam(K)	Arm(A)	Cam		4D 200	11-14					
Subframe	Subframe	Cam	Cam		4D 200	15-17	★		EPS	ACC	◀
	Cam/Bolt(K)	Arm(A)	Tie Rod		4D 300M	99-04					
Sub/Bolt(K)	Sub/Bolt(K)	Bushing(A)	Cam		4D 300 4X2	05-06					
Subframe	Subframe	Bushing(A)	Cam		4D 300 4X4	05-06					
Sub/Bolt(K)	Sub/Bolt(K)	Bushing(A)	Cam		4D 300 4X2	07-10	★			ACC	
Subframe	Subframe	Bushing(A)	Cam		4D 300 4X4	07-10	★			ACC	
Subframe	Sub/Bolt(K)	Arm(O)	Cam		4D 300 / 300C 4X2	11-18	★			ACC	◀
Subframe	Subframe	Arm(O)	Cam		4D 300 / 300C 4X4	11-18	★			ACC	◀
Subframe	Sub/Bolt(K)	Arm(O)	Cam		4D 300 / 300C 4X2	19-23	★			ACC	
Subframe	Subframe	Arm(O)	Cam		4D 300 / 300C 4X4	19-23	★			ACC	
Arm-Slot	Arm-Slot				T Aspen	07-09					
Strut(U)	Strut(U)	Tie Rod	Tie Rod		4 Cirrus	95-00					
	Cam/Bolt(K)	Arm(A)	Tie Rod		4D Concorde	93-04					
Bolt Kit	Bolt Kit	Bushing(A)	Cam	6	4D Crossfire	04-08	★				
Subframe	Sub/Cam(K)	Cam	Cam		4D Grand Caravan (Canada)	21-23	★				FCW
	Cam/Bolt(K)		Tie Rod		4D Intrepid (Canada)	93-04					
	Cam/Bolt(K)	Arm(A)	Tie Rod		4D LHS	94-01					
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D Neon	00-05					
	Cam(K)	Arm(A)	Tie Rod		4D New Yorker	94-96					
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S PT Cruiser	01-10					
	Cam(K)	Bushing(A)	Cam		4D Pacifica	04-08					
Subframe	Sub/Cam(K)	Cam	Cam		4D Pacifica	17-18	★			ACC	◀
Subframe	Sub/Cam(K)	Cam	Cam		4D Pacifica	19-23	★			ACC	
Cam	Cam	Tie Rod	Tie Rod		4 Prowler	01-02					
Strut(U)	Strut(U)	Tie Rod	Tie Rod		4 Sebring Sedan/Conv (w/Adj. Rear Camber)	96-04					
Strut(U)	Strut(U)	Arm(A)	Tie Rod		4D Sebring Sedan/Conv (w/o Adj. Rear Camber)	04-06					

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

6 Requires Spreader Bar to measure and set front toe.

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ACC Adaptive Cruise Control	EPS Electronic Power Steering
FCW Forward Collision Warning	(Chrysler) Electronic Stabilization Program

Safety System Key

◀ Requires CodeLink©2 WinAlign 15.x or newer and special tools or fixtures

Wheel Alignment Adjustments						CHRYSLER			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes		Model	Years	★	4WS AFS RCS									
Subframe	Sub/Cam(K)	Cam				4D Sebring Sedan/Convertible	07-10											
B-Joint(A)	Cam(K)	Shim(A)	Cam			4D Sebring Coupe	95-00											
	Strut(L)	Shim(A)	Cam			4D Sebring Coupe	01-05											
	Cam(K)	Shim(A)	Shim(A)			4S Town and Country 4X2	96-07											
	Cam(K)					TD Town and Country 4X4	97-04											
Subframe	Sub/Cam(K)	Shim(A)	Shim(A)			4S Town and Country	08-16											
	Cam(K)	Shim(A)	Shim(A)			4S Voyager	00-03											
Subframe	Sub/Cam(K)	Cam	Cam			4D Voyager	20-23	★	FCW									
Wheel Alignment Adjustments						DAEWOO			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes	Model	Years	★	4WS AFS RCS									
				lbs		T Lanos	98-02	★										
	Cam(K)	Cam(K)	Tie Rod	lbs		4D Leganza	98-02	★										
	Cam(K)	Cam(K)	Cam	lbs		4D Nubira	98-02	★										
Wheel Alignment Adjustments						DODGE/RAM/SRT			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Note		Model	Years	★	4WS AFS RCS									
B-Joint(A)	Cam(K)	Shim(A)	Cam			4D Avenger	95-00											
Subframe	Sub/Cam(K)	Arm(A)	Cam			4D Avenger	08-14											
Arm-Slot	Arm-Slot					T B150-B350 / Ram Van 1500-3500	80-03											
Sub/Bolt(K)	Sub/Bolt(K)	Arm(A)	Cam			4D Caliber	07-12											
	Cam(K)	Shim(A)	Shim(A)			4S Caravan/Grand Caravan 4X2	96-07											
	Cam(K)					TD Caravan/Grand Caravan 4X4	97-04											
Subframe	Sub/Cam(K)	Shim(A)	Shim(A)			4S Grand Caravan/Ram C/V	08-20											
Sub/Bolt(K)	Sub/Bolt(K)	Bushing (A)	Cam			4D Challenger	09-10											
Subframe	Sub/Bolt(K)	Arm(O)	Cam			4D Challenger	11-14											
Subframe	Sub/Bolt(K)	Arm(O)	Cam			4D Challenger	15-16	★	ACC									
Subframe	Sub/Bolt(K)	Arm(O)	Cam			4D Challenger 4X2	17-18	★	ACC									

Wheel Alignment Key

Additional parts/procedure might be needed

Aftermarket parts required

4 4-wheel alignment, equipped with standard factory adjustments

4D 4-wheel alignment, may require additional parts/procedures

4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment

T Thrust-line alignment (no rear adjustments)

TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator

★ Vehicle requires safety system alignment or notes

Reset Required - Standard feature Use CodeLink or OEM scan tool

Optional feature - Reset required if present Use CodeLink or OEM Scan Tool

Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)

Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part

(K) Kit

(O) OEM Part

(B-J) Ball-Joint

(L) Lower

(U) Upper

ACC Adaptive Cruise Control

FCW Forward Collision Warning

(Dodge) Electronic Stabilization Program

(Chrysler) Electronic Stabilization Program

Notes

lbs Requires loading of vehicle before alignment

Safety System Key

★ Requires CodeLink©2 WinAlign 15.x or newer and special tools or fixtures

Wheel Alignment Adjustments					DODGE/RAM/SRT			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Note	Model	Years	★	 ESC	 EPS	ACC	 LDW	 AEB	4WS	NVS	AFS	FCW	
Subframe	Subframe	Arm(O)	Cam		4D Challenger 4X4	17-18	★			ACC	◀						
Subframe	Sub/Bolt(K)	Arm(O)	Cam		4D Challenger 4X2	19-23	★			ACC							
Subframe	Subframe	Arm(O)	Cam		4D Challenger 4X4	19-23	★			ACC							
Sub/Bolt(K)	Sub/Bolt(K)	Bushing (A)	Cam		4D Charger 4X2	06-10											
Subframe	Subframe	Bushing (A)	Cam		4D Charger 4X4	07-10											
Subframe	Sub/Bolt(K)	Arm(O)	Cam		4D Charger 4X2	11-18	★			ACC	◀						
Subframe	Subframe	Arm(O)	Cam		4D Charger 4X4	11-18	★			ACC	◀						
Subframe	Sub/Bolt(K)	Arm(O)	Cam		4D Charger 4X2	19-23	★			ACC							
Subframe	Subframe	Arm(O)	Cam		4D Charger 4X4	19-23	★			ACC							
	Cam(K)	Cam	Cam		4D Colt	93-96											
Arm-Slot	Arm-Slot				T Dakota	87-04											
Cam	Cam				T Dakota	05-11											
Subframe	Subframe	Cam	Arm-Slot		4D Dart	13-16	★		EPS								
Arm-Slot	Arm-Slot				T Durango	98-09											
Arm-Slot	Arm-Slot	Cam	Cam		4 Durango	11-18	★			ACC	◀						
Arm-Slot	Arm-Slot	Cam	Cam		4 Durango	19-23	★			ACC							
			Cam		4 Hornet	23-23	★		EPS	ACC							
	Cam/Bolt(K)	Arm(A)	Tie Rod		4D Intrepid	93-04											
Subframe	Sub/Cam(K)	Arm(A)	Cam		4D Journey	09-20											
Sub/Bolt(K)	Sub/Bolt(K)	Bushing (A)	Cam		4D Magnum 4X2	05-08											
Subframe	Subframe	Bushing (A)	Cam		4D Magnum 4X4	05-08											
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D Neon (incl. SRT-4)	95-05											
Cam	Cam				T Nitro	07-11											
Subframe	Sub/Cam(K)		Ax-Shift		4D ProMaster	14-23											
		Cam	Arm-Slot		4 ProMaster City	15-22											
Arm-Slot	Arm-Slot				T Ram 1500 4X2	94-01											
Cam	B-Joint(A)				TD Ram 1500 4X4	94-01											
Arm-Slot	Arm-Slot				T Ram 1500	02-05											
Cam	Cam				T Ram 1500 (exc/4X4 MegaCab)	06-08											
Cam	B-Joint(A)				TD Ram 1500 4X4 MegaCab	06-08											
Cam	Cam				T Ram 1500 / 1500 HD	09-12											
Cam	Cam				T Ram 1500 (DS)	13-17	★		EPS								

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ACC Adaptive Cruise Control (Dodge) Electronic Stabilization Program
EPS Electronic Power Steering

Safety System Key

◀ Requires CodeLink©2 WinAlign 15.x or newer and special tools or fixtures

Wheel Alignment Adjustments						DODGE/RAM/SRT			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	lbs	Model	Years	★		EPS	ACC	LDW	AEB	4WS	NVS	AFS	FCW	
Cam	Cam					T Ram 1500 (DS) incl. Ram Classic	18-23	★		EPS								
Cam	Cam					T Ram 1500 (DT)	19-23											
Arm-Slot	Arm-Slot					T Ram 2500/3500 4X2 w/IFS	94-02											
Cam	Bushing					TD Ram 2500/3500 4X2 w/Solid Axle	94-99											
Cam						T Ram 2500/3500 4X2 w/Solid Axle	00-02											
Cam	B-Joint(A)					TD Ram 2500 4X4	94-02											
Cam	Bushing					TD Ram 2500HD-3500 4X4	94-99											
Cam	B-Joint(A)					TD Ram 2500HD-3500 4X4	00-02											
Arm-Slot	Arm-Slot					T Ram 2500/3500 4X2	03-05											
Cam	B-Joint(A)					TD Ram 2500/3500 4X4	03-05											
Cam	Cam					T Ram 2500/3500 4X2	06-12											
Cam						T Ram 3500 4X2 Chassis Cab w/Solid Axle	07-12											
Cam	B-Joint(A)					TD Ram 2500/3500 4X4	06-12											
Cam	Cam					T Ram 2500 4X2	13-13											
Cam						T Ram 3500 4X2	13-13											
Cam	B-Joint(A)					TD Ram 2500/3500 4X4	13-13											
Cam						T Ram 2500/3500 4X2	14-18											
Cam	B-Joint(A)					TD Ram 2500/3500 4X4	14-18											
Cam						T Ram 2500/3500 4X2	19-23	★								AFS		
Cam	B-Joint(A)					TD Ram 2500/3500 4X4	19-23	★								AFS		
	Cam/Bolt(K)	Cam/Bolt(K)	Cam			4D SX 2.0	03-05											
	Shim(A)					TD Sprinter	03-06											
	Strut(L)					T Sprinter	07-09											
	Strut(L)	Cam	Cam			4 Stealth	91-96											
Strut(U)	Strut(U)	Tie Rod	Tie Rod			4 Stratus Sedan (w/Adj. Rear Camber)	95-04											
Strut(U)	Strut(U)	Arm(A)	Tie Rod			4D Stratus Sedan (w/o Adj. Rear Camber)	04-06											
	Strut(L)	Shim(A)	Cam			4D Stratus Coupe	01-05											
Cam	Cam	Cam	Tie Rod	4		4 Viper	92-02	★										
Cam	Cam	Cam	Tie Rod	4	lbs	4 Viper	03-10	★										
Cam	Cam	Cam	Tie Rod	4		4 Viper	13-17	★										

Wheel Alignment Key					Description	
Additional parts/procedure might be needed					Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator	
Aftermarket parts required					Vehicle requires safety system alignment or notes	★
4 4-wheel alignment, equipped with standard factory adjustments					Reset Required - Standard feature Use CodeLink or OEM scan tool	
4D 4-wheel alignment, may require additional parts/procedures					Optional feature - Reset required if present Use CodeLink or OEM Scan Tool	
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment					Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)	
T Thrust-line alignment (no rear adjustments)					Reset required - Standard Feature, Use OEM scan tool (No CL support yet)	
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures						

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

- 4 May require special OEM procedures/tools
 lbs Requires loading of vehicle before alignment

AFS Active Front Steering	(Dodge) Electronic Stabilization Program
EPS Electronic Power Steering	

Safety System Key

Wheel Alignment Adjustments						EAGLE			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes		Model	Years	★	ESC ACC LDW AEB 4WS NVS AFS FCW RCS									
	Cam(K)	Cam	Cam			4D Summit	93-96											
	Cam(K)		Cam			4D Summit Wagon	92-96											
B-Joint(A)	Cam(K)	Shim(A)	Cam			4D Talon	95-98											
	Cam(K)	Arm(A)	Tie Rod			4D Vision	93-97											
Wheel Alignment Adjustments						FERRARI			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes	Model	Years	★	ESC ACC LDW AEB 4WS NVS AFS FCW RCS									
	Shim(O)	Shim(O)	Tie Rod			4D 296 GTB	22-23											
	Shim(O)	Shim(O)	Tie Rod			4D 296 GTS	23-23											
	Shim(O)	Shim(O)	Tie Rod	lbs		4D 430 Scuderia incl. 16M Spider	08-09	★										
	Shim(O)	Shim(O)	Tie Rod			4D 458 Italia / Speciale	10-15											
	Shim(O)	Shim(O)	Tie Rod			4D 488 GTB / Pista / Spider	16-19											
	Shim(O)	Shim(O)	Tie Rod			4D 599 GTB Fiorano / GTO / 07-12 SA Aperta												
	Shim(O)	Shim(O)	Tie Rod	lbs		4D 612 Scaglietti / Sessanta (up to ENHANCEMENT)	05-11	★										
	Shim(O)	Shim(O)	Tie Rod			4D 612 Scaglietti / Sessanta (from ENHANCEMENT)	05-11											
	Shim(O)	Shim(O)	Scan Tool			4D 812 Superfast / GTS / Competizione	18-23	★			4WS							
	Shim(O)	Shim(O)	Tie Rod			4D California / California T	09-18											
	Shim(O)	Shim(O)	Tie Rod			4D F8 Tributo / Spider	20-23											
	Shim(O)	Shim(O)	Tie Rod			4D F12berlinetta	13-17											
	Shim(O)	Shim(O)	Scan Tool			4D F12tdf	15-17	★			4WS							
	Shim(O)	Shim(O)	Tie Rod			4D F430	05-09											
	Shim(O)	Shim(O)	Tie Rod			4D FF	12-16											
	Shim(O)	Shim(O)	Scan Tool			4D GTC4Lusso / GTC4Lusso T	17-20	★			4WS							
	Shim(O)	Shim(O)	Tie Rod			4D LaFerrari (incl. Aperta)	14-15											
	Shim(O)	Shim(O)	Tie Rod			4D Portofino / Portofino M	19-23											
	Shim(O)	Shim(O)	Tie Rod			4D Roma	21-23											
	Shim(O)	Shim(O)	Tie Rod			4D SF90 Stradale / Spider	21-23											

Wheel Alignment Key		Description	
Additional parts/procedure might be needed		Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator	
Aftermarket parts required		Vehicle requires safety system alignment or notes	★
4 4-wheel alignment, equipped with standard factory adjustments		Reset Required - Standard feature Use CodeLink or OEM scan tool	
4D 4-wheel alignment, may require additional parts/procedures		Optional feature - Reset required if present Use CodeLink or OEM Scan Tool	
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment		Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)	
T Thrust-line alignment (no rear adjustments)		Reset required - Standard Feature, Use OEM scan tool (No CL support yet)	
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures			

(A) Aftermarket Part	(K) Kit	(O) OEM Part	4WS Four-Wheel Steering
(B-J) Ball-Joint	(L) Lower	(U) Upper	
Notes			Safety System Key
lbs	Requires loading of vehicle before alignment		No Additional Requirements

Wheel Alignment Adjustments					FIAT		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	EPS	ACC	LDW AEB 4WS NVS AFS FCW
Cam	Cam	Cam	Cam		4 124 Spider	17-20					
	Cam(K)	Shim(A)	Shim(A)		4S 500	12-19	★		EPS		
	Cam(K)	Shim(A)	Shim(A)		4S 500e (BEV)	13-19	★		EPS		
					T 500L	14-17	★		EPS		
					T 500L	18-20	★		EPS		
			Cam		4 500X	16-17	★	↑	EPS	ACC	
			Cam		4 500X	18-23	★		EPS	ACC	
Wheel Alignment Adjustments					FISKER		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW AEB 4WS NVS AFS FCW RCS	
Cam	Cam	Cam	Tie Rod		4 Karma	12-12					
Wheel Alignment Adjustments					FORD		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	EPS	ACC	LDW AEB 4WS NVS AFS
Shim(O)	Shim(O)				TD Aerostar	86-97					
	Cam(K)	Shim(A)	Shim(A)		4S Aspire	94-97					
Bushing	Bushing				TD Bronco	80-96					
Cam	Cam				T Bronco	21-23	★				LDW
	Cam/Bolt(K)	Arm(O)	Cam		4D Bronco Sport	21-23	★				LDW ◀
Subframe	Strut(U)	Arm(O)	Cam		4D C-Max	13-18					
Strut(U)	Strut(U)		Cam		4D Contour	95-00					
Cam	Cam				T Crown Victoria	92-02					
Arm-Slot	Cam				T Crown Victoria	03-11					
Bushing	Bushing				TD E150-E350	92-14					
Bushing	Bushing				TD E350/450 Cutaway/Stripped	15-19					
Bushing	Bushing				TD E350/450 Cutaway/Stripped	21-24	★				LDW
	Cam/Bolt(K)				TD EcoSport 4X2	18-22					
	Cam/Bolt(K)		Cam		4D EcoSport 4X4	18-22					
	Strut(U)	Cam	Cam		4 Edge	07-14					
	Cam/Bolt(K)	Arm-Slot	Cam		4D Edge	15-15	★				LDW ◀
	Cam/Bolt(K)	Arm-Slot	Cam		4D Edge	16-18	★				LDW ◀ AFS ◀
	Cam/Bolt(K)	Arm-Slot	Cam		4D Edge	19-23	★				LDW ◀

Wheel Alignment Key		Description	
Additional parts/procedure might be needed		Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator	
Aftermarket parts required		Vehicle requires safety system alignment or notes	★
4 4-wheel alignment, equipped with standard factory adjustments		Reset Required - Standard feature Use CodeLink or OEM scan tool	
4D 4-wheel alignment, may require additional parts/procedures		Optional feature - Reset required if present Use CodeLink or OEM Scan Tool	
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment		Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)	
T Thrust-line alignment (no rear adjustments)		Reset required - Standard Feature, Use OEM scan tool (No CL support yet)	
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures			

(A) Aftermarket Part	(K) Kit	(O) OEM Part	(Ford) Advance Trac
(B-J) Ball-Joint	(L) Lower	(U) Upper	LDW Lane Departure Warning
Notes		Safety System Key	
No Notes		Requires CodeLink® OEM exp. Cable	

Wheel Alignment Adjustments					FORD		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC EPS	ACC LDW	AEB 4WS NVS AFS RCS	
Strut(U)	Strut(U)	Arm(A)	Cam		4D Escape (incl. Hybrid)	01-07					
Strut(U)	Strut(U)	Arm(A)	Cam		4D Escape (incl. Hybrid)	08-12	★	EPS			
Subframe	Strut(U)	Arm(O)	Cam		4D Escape	13-16					
Subframe	Strut(U)	Arm(O)	Cam		4D Escape	17-19	★		LDW ◀		
	Cam/Bolt(K)		Cam		4D Escape (incl. Hybrid)	20-22	★		LDW ◀		
	Cam/Bolt(K)		Cam		4D Escape (incl. Hybrid)	23-23	★		LDW		
Strut(U)	Strut(U)	Cam(K)	Tie Rod		4D Escort	91-96					
Strut(U)	Strut(U)		Cam		4 Escort / ZX2	97-03					
Bushing	Bushing				TD Excursion 4X2	00-05					
Bushing	Bushing				TD Excursion 4X4	00-05					
Cam	Cam				T Expedition	97-98					
Arm-Slot	Arm-Slot				T Expedition	98-02					
Cam(K)	Cam(K)	Cam(K)	Tie Rod		4D Expedition	03-06					
Cam(K)	Cam(K)	Arm-Slot	Cam		4D Expedition / Expedition EL	07-17					
Cam(K)	Cam(K)	Arm-Slot	Cam		4D Expedition / Expedition MAX	18-19	★		LDW ◀		
Cam(K)	Cam(K)	Arm-Slot	Cam		4D Expedition / Expedition MAX	20-23	★		LDW ◀		
Cam	Cam				T Explorer (incl. Sport/Sport Trac)	95-01					
Arm-Slot	Arm-Slot	Arm-Slot	Tie Rod		4 Explorer	02-05					
Cam	Cam				T Explorer Sport/Sport Trac	02-02					
Arm-Slot	Arm-Slot				T Explorer Sport/Sport Trac	03-05					
Arm-Slot	Arm-Slot	Arm-Slot	Cam		4 Explorer (incl. Sport Trac)	06-10					
	Strut(U)	Arm-Slot	Tie Rod		4 Explorer	11-12					
	Strut(U)	Arm-Slot	Tie Rod		4 Explorer (incl. Police Interceptor)	13-19	★		LDW ◀		
	Cam/Bolt(K)	Arm-Slot	Cam		4D Explorer (incl. Police Interceptor)	20-23	★		LDW ◀		
Bushing	Bushing				TD F-150 4X2	87-96					
Bushing	Bushing				TD F-150 4X4	84-96					
Cam	Cam				T F-150/F-250 LD	97-98					
Arm-Slot	Arm-Slot				T F-150/F-250 LD	98-03					
Arm-Slot	Arm-Slot				T F-150 Heritage	04-04					

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

EPS Electronic Power Steering	(Ford) Advance Trac
LDW Lane Departure Warning	

Safety System Key

◀ Requires CodeLink©2 WinAlign 15.x or newer and special tools or fixtures

Wheel Alignment Adjustments					FORD		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	 ESC	 ACC	 LDW	 AEB	4WS	NVS	AFS	RCS	
Cam(K)	Cam(K)				TD F-150	04-14										
Cam(K)	Cam(K)				TD F-150	15-20	★			LDW ◀						
Cam(K)	Cam(K)				TD F-150 (exc/Lightning)	21-23	★			LDW					AFS	
Cam(K)	Cam(K)		Cam		4D F-150 Lightning (BEV)	22-23	★			LDW						
Bushing	Bushing				TD F-250/F-350 4X2	87-96										
Bushing	Bushing				TD F-250/F-350 4X4	84-96										
Bushing	Bushing				TD F-250 HD/F-350	97-97										
Bushing	Bushing				TD Super Duty F-250/F-350	99-16										
Bushing	Bushing				TD Super Duty F-250/F-350	17-22	★			LDW ◀					AFS ◀	
Bushing	Bushing				TD Super Duty F-250/F-350	23-23	★			LDW						
Bushing	Bushing				TD Super Duty F-450/F-550	99-16										
Bushing	Bushing				TD Super Duty F-450 Pickup	17-22	★			LDW					AFS	
Bushing	Bushing				TD Super Duty F-450 Pickup	23-23	★			LDW						
Bushing	Bushing				TD Super Duty F-450/F-550/F-600 Chassis Cab	17-23	★			LDW						
	Cam(K)				TD Fiesta	11-19										
	Strut(U)	Cam(K)	Cam		4D Five Hundred	05-07										
	Strut(U)	Arm-Slot	Tie Rod		4 Flex	09-19										
Strut(U)	Strut(U)	Arm(A)	Cam		4D Focus	00-04										
Strut(U)	Strut(U)	Arm(O)	Cam		4D Focus	05-11										
Subframe	Strut(U)	Arm(O)	Cam		4D Focus	12-14										
Subframe	Strut(U)	Arm(O)	Cam		4D Focus	15-18	★			LDW ◀						
Strut(U)	Strut(U)				TD Freestar	04-07										
	Strut(U)	Cam(K)	Cam		4D Freestyle	05-07										
Ctrl-Arm	B-Joint(A)	Cam	Tie Rod		4D Fusion	06-12										
	Strut(L)	Arm-Slot	Cam		4 Fusion	13-13	★			LDW						
	Cam/Bolt(K)	Arm-Slot	Cam		4D Fusion	14-18	★			LDW ◀						
	Cam/Bolt(K)	Arm-Slot	Cam		4D Fusion	19-20	★			LDW ◀						
Shim(O)	Shim(O)	Shim(O)	Tie Rod		4D GT	05-06										
	Shim(O)	Shim(O)	Tie Rod		4D GT	17-22										
	Cam/Bolt(K)				TD Maverick 4X2	22-23	★			LDW						
	Cam/Bolt(K)		Cam		4D Maverick 4X4	22-23	★			LDW						
Strut(AU)	Strut(U)				TD Mustang	79-04										
Strut(AU)	Strut(U)	Cam	Tie Rod		4D Mustang Cobra (IRS)	99-04										

Wheel Alignment Key		Description	
Additional parts/procedure might be needed		Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator	
Aftermarket parts required		Vehicle requires safety system alignment or notes	★
4 4-wheel alignment, equipped with standard factory adjustments		Reset Required - Standard feature Use CodeLink or OEM scan tool	
4D 4-wheel alignment, may require additional parts/procedures		Optional feature - Reset required if present Use CodeLink or OEM Scan Tool	
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment		Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)	
T Thrust-line alignment (no rear adjustments)		Reset required - Standard Feature, Use OEM scan tool (No CL support yet)	
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures			

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

AFS Active Front Steering	(Ford) Advance Trac
LDW Lane Departure Warning	

Safety System Key

◀ Requires CodeLink©2 WinAlign 15.x or newer and special tools or fixtures

Wheel Alignment Adjustments					FORD		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB 4WS NVS AFS FCW RCS
Cam(K)	Cam(K)				TD Mustang (incl. Shelby GT500)	05-14					
	Strut(L)	Arm-Slot Cam			4D Mustang (incl. Shelby GT350(R))	15-17					
	Strut(L)	Arm-Slot Cam			4D Mustang	18-23	★			LDW ◀	
	Strut(L)	Arm-Slot Cam			4D Mustang Shelby GT350	18-20					
	Strut(L)	Arm-Slot Cam			4D Mustang Shelby GT350R	18-18					
	Strut(U)	Arm-Slot Cam			4D Mustang Shelby GT350R	19-20					
	Strut(U)	Arm-Slot Cam			4D Mustang Shelby GT500	20-22					
	Cam/Bolt(K)	Arm-Slot Cam			4D Mustang Mach-E	21-23	★			LDW	
Strut(U)	Strut(U)	Cam(K)	Cam		4D Probe	93-97					
Bushing	Bushing				TD Ranger 4X2	89-97					
Bushing	Bushing				TD Ranger 4X4	84-97					
Cam	Cam				T Ranger	98-02					
Arm-Slot	Arm-Slot				T Ranger	03-11					
Cam	Cam				T Ranger	19-23	★			LDW ◀	
Strut(U)	Strut(U)	Cam(K)	Cam		4D Taurus Sedan	86-07					
Strut(U)	Strut(U)	Cam(K)	Cam		4D Taurus Wagon	86-05					
	Strut(U)	Cam(K)	Cam		4D Taurus	08-09					
	Strut(U)	Arm-Slot Tie Rod			4 Taurus	10-12					
	Strut(U)	Arm-Slot Tie Rod			4 Taurus	13-19	★			LDW ◀	
Strut Rod	Cam	Cam	Cam		4 Thunderbird	89-97					
Cam(K)	Cam(K)		Tie Rod		4D Thunderbird	02-05					
Subframe	Sub/B-J				TD Transit	15-19	★			LDW ◀	
Subframe	Sub/B-J				TD Transit (exc/E-Transit BEV)	20-23	★	↑		LDW ◀	
Subframe	Subframe		Cam		4D E-Transit BEV	22-23	★			LDW	
Subframe	Strut(U)				TD Transit Connect	10-11	★	ESC			
Subframe	Strut(U)				TD Transit Connect	12-13	★	ESC			
Subframe	Strut(U)				TD Transit Connect	14-18					
Subframe	Strut(U)				TD Transit Connect	19-23	★			LDW ◀	
Strut(U)	Strut(U)	Shim(A)	Shim(A)		4S Windstar	95-03					

Wheel Alignment Key		Description	
Additional parts/procedure might be needed		Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator	
Aftermarket parts required		Vehicle requires safety system alignment or notes	★
4 4-wheel alignment, equipped with standard factory adjustments		Reset Required - Standard feature Use CodeLink or OEM scan tool	
4D 4-wheel alignment, may require additional parts/procedures		Optional feature - Reset required if present Use CodeLink or OEM Scan Tool	
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment		Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)	
TD Thrust-line alignment (no rear adjustments)		Reset required - Standard Feature, Use OEM scan tool (No CL support yet)	
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures			

(A) Aftermarket Part (K) Kit (O) OEM Part
(B-J) Ball-Joint (L) Lower (U) Upper

Notes

No Notes

ESC Electronic Stability Control (Ford) Advance Trac
LDW Lane Departure Warning

Safety System Key

↑ Requires CodeLink® OEM exp. Cable
◀ Requires CodeLink©2 WinAlign 15.x or newer and special tools or fixtures

Wheel Alignment Adjustments					GMC			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	 ESC	 ACC	 LDW	 AEB	 4WS	 NVS	 AFS	 FCW	 RCS	
Cam(K)	Cam(K)				TD C1500-C3500 / Sierra 4X2 Pickup	88-00											
Wedge					TD C3500 HD 4X2	88-06											
Cam(K)	Cam(K)				TD K1500-K3500 / Sierra 4X4 Pickup	88-00											
Cam	Cam				T Sierra 1500	99-13											
Cam	Cam		Tie Rod		4 Sierra 1500 w/Quadrasteer (4WS)	02-05	★					4WS					
Cam	Cam				T Sierra 1500	14-18	★	↕	ESC								
Cam	Cam				T Sierra 1500 Limited (GMT K2XX)	19-19	★	↕	ESC								
Cam	Cam				T Sierra 1500 (GMT T1XX)	19-21	★		ESC								
Cam	Cam				T Sierra 1500 Limited (GMT T1XX I)	22-22	★		ESC								
Cam	Cam				T Sierra 1500 (GMT T1XX II)	22-23	★		ESC								
Cam	Cam				T Sierra 2500/3500	99-14											
Cam	Cam		Tie Rod		4 Sierra 2500 w/Quadrasteer (4WS)	02-05	★					4WS					
Cam	Cam				T Sierra 2500/3500	15-24	★		ESC								
	Strut(L)	Cam	Cam		4D Acadia	07-16	★		ESC								
	Cam/Bolt(K)	Cam	Cam		4D Acadia	17-17	★	↕	ESC								
	Strut(L)	Cam	Cam		4D Acadia Limited	17-17	★		ESC								
	Cam/Bolt(K)	Cam	Cam		4D Acadia	18-23	★	↕	ESC								
Cam	Cam				T Canyon Pickup	04-12											
Cam	Cam				T Canyon Pickup	15-22	★		ESC								
Cam	Cam				T Canyon Pickup	23-23	★		ESC								
Cam	Cam				T Envoy	98-00											
Arm-Slot	Arm-Slot				T Envoy	02-09											
Shim(O)	Shim(O)				TD G1500-G3500 Van	77-96											
Cam(K)	Cam(K)	Cam(K)	Tie Rod		4D HUMMER EV	22-24	★		ESC								
Cam(K)	Cam(K)				TD Savana Van	96-02											
Cam	Cam				T Savana Van	03-17											
Cam	Cam				T Savana Van	18-23	★		ESC								
Shim(O)	Shim(O)				TD Jimmy (S15) 4X2	83-05											
Cam	Cam				T Jimmy (S15) 4X4	83-05											
Shim(O)	Shim(O)				TD P-Chassis	80-99											
Shim(O)	Shim(O)				TD S15 / Sonoma Pickup 4X2	82-03											
Cam	Cam				T S15 / Sonoma Pickup 4X4	84-04											

Wheel Alignment Key					Description				
Additional parts/procedure might be needed					Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator				
Aftermarket parts required					★ Vehicle requires safety system alignment or notes				
4 4-wheel alignment, equipped with standard factory adjustments					Reset Required - Standard feature Use CodeLink or OEM scan tool				
4D 4-wheel alignment, may require additional parts/procedures					Optional feature - Reset required if present Use CodeLink or OEM Scan Tool				
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment					Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)				
T Thrust-line alignment (no rear adjustments)					Reset required - Standard Feature, Use OEM scan tool (No CL support yet)				
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures									

(A) Aftermarket Part (K) Kit (O) OEM Part
(B-J) Ball-Joint (L) Lower (U) Upper

Notes

No Notes

4WS Four-Wheel Steering (GMC) Stabilitrak
ESC Electronic Stability Control

Safety System Key

↑ Requires CodeLink® OEM exp. Cable

Wheel Alignment Adjustments					GMC			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS	
Shim(O)	Shim(O)				TD Safari 4X2	85-05												
Cam	Cam				T Safari 4X4	90-05												
Cam(K)	Cam(K)				TD Suburban	92-99												
	Cam(K)	Cam	Cam(K)		4D Terrain	10-17	★	↕	ESC									
	Cam/Bolt(K)	Cam	Cam		4D Terrain	18-23	★	↕	ESC									
Cam(K)	Cam(K)				TD Yukon	92-99												
Cam	Cam				T Yukon	00-14												
Cam	Cam				T Yukon	15-20	★	↕	ESC									
Cam	Cam	Cam	Cam		4 Yukon	21-23	★		ESC									
Cam(K)	Cam(K)				TD Yukon Denali	99-00												
Cam	Cam				T Yukon Denali	01-14												
Cam	Cam				T Yukon Denali	15-20	★	↕	ESC									
Cam	Cam	Cam	Cam		4 Yukon Denali	21-23	★		ESC									
Cam	Cam				T Yukon XL (incl. Denali)	00-14												
Cam	Cam		Tie Rod		4 Yukon XL (incl. Denali) w/Quadrasteer (4WS)	03-05	★						4WS					
Cam	Cam				T Yukon XL (incl.Denali)	15-20	★	↕	ESC									
Cam	Cam	Cam	Cam		4 Yukon XL (incl.Denali)	21-23	★		ESC									
Wheel Alignment Adjustments					GENESIS MOTORS			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	EPS	ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS
		Cam	Cam		4 G70	19-23	★			EPS								
		Cam	Cam		4 G80	17-20	★			EPS								
		Cam	Cam		4 G80	21-23	★			EPS								
		Cam	Cam		4 Electrified G80 (BEV)	23-23	★			EPS								
		Cam	Cam		4 G90	17-22	★			EPS								
		Cam	Cam		4 G90	23-23	★			EPS								
		Cam	Cam		4 GV60	23-23	★			EPS								
		Cam	Cam		4 GV70	22-23	★			EPS								
		Cam	Cam		4 Electrified GV70 (BEV)	23-23	★			EPS								
		Cam	Cam		4 GV80	21-23	★			EPS								

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

4WS	Four-Wheel Steering	(GMC) Stabilitrak
EPS	Electronic Power Steering	
ESC	Electronic Stability Control	

Safety System Key

↓ Requires CodeLink® OEM exp. Cable

Wheel Alignment Adjustments						GEO			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS		
	Cam(K)		Cam		4D Metro	89-97												
	Cam/Bolt(K)		Tie Rod		4D Prizm	93-97												
	Cam(K)				TD Tracker	89-97												
Wheel Alignment Adjustments						HONDA			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS		
Strut Rod	B-Joint(A)	Bushing	Cam		4D Accord	90-97												
Strut Rod	B-Joint(A)	Arm(A)	Cam		4D Accord	98-02												
B-Joint(A)	B-Joint(A)	Arm(A)	Cam		4D Accord (incl. Hybrid)	03-12												
	Strut(U)	Arm(A)	Cam		4D Accord	13-17	★	ESC										
	Strut(U)	Arm(A)	Cam		4D Accord Hybrid	14-15	★	ESC										
	Strut(U)	Arm(A)	Cam		4D Accord Plug-in	14-14	★	ESC										
	Strut(U)	Arm(A)	Cam		4D Accord Hybrid	17-17	★	ESC										
	Strut(U)	Arm(A)	Cam		4D Accord (incl. Hybrid)	18-22	★	ESC										
	Strut(U)		Cam		4D Accord (incl. Hybrid)	23-23	★	ESC										
B-Joint(A)	B-Joint(A)	Bushing	Arm-Slot		4D Civic	88-00												
	Cam/Bolt(K)	Arm(A)	Cam		4D Civic (incl. Hybrid)	01-11												
	Cam/Bolt(K)	Arm(A)	Cam		4D Civic (incl. Hybrid)	12-15	★	ESC										
	Strut(U)	Arm(A)	Cam/Bolt (K)		4D Civic (exc/Type R)	16-21	★	ESC										
	Strut(U)	Arm(A)	Cam/Bolt (K)		4D Civic Type R	17-21	★	ESC										
	Strut(U)		Cam/Bolt (K)		4D Civic	22-23	★	ESC										
B-Joint(A)	B-Joint(A)	Bushing	Arm-Slot		4D Civic Del Sol	93-97												
	Strut(U)		Cam/Bolt (K)		4D Clarity FCV/EV	17-21	★	ESC										
	Strut(U)		Cam/Bolt (K)		4D Clarity PHEV	18-21	★	ESC										
B-Joint(A)	B-Joint(A)	Shim(A)	Arm-Slot		4D CR-V	97-01												
	Cam/Bolt(K)	Arm(A)	Cam		4D CR-V	02-11												
	Cam/Bolt(K)	Arm(A)	Cam		4D CR-V	12-16	★	ESC										
	Strut(U)	Arm(A)	Cam/Bolt (K)		4D CR-V	17-22	★	ESC										

Wheel Alignment Key		Description	
▲	Additional parts/procedure might be needed	■	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
■	Aftermarket parts required	★	Vehicle requires safety system alignment or notes
4	4-wheel alignment, equipped with standard factory adjustments	■	Reset Required - Standard feature Use CodeLink or OEM scan tool
4D	4-wheel alignment, may require additional parts/procedures	■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment	■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T	Thrust-line alignment (no rear adjustments)	■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures		

(A) Aftermarket Part	(K) Kit	(O) OEM Part	4WS Four-Wheel Steering	(Honda) VSA Vehicle Stability Assist
(B-J) Ball-Joint	(L) Lower	(U) Upper	ESC Electronic Stability Control	

Notes		Safety System Key	
No Notes		Requires CodeLink® OEM exp. Cable	

Wheel Alignment Adjustments					HONDA			Safety System Alignment Resets								
Front Caster	Front Camber	Rear Camber	Rear Toe	Note	Model	Years	★									
	Strut(U)	Arm(A)	Cam/Bolt(K)		4D CR-V Hybrid	20-22	★	ESC								
	Strut(U)		Cam/Bolt(K)		4D CR-V	23-23	★	ESC								
	Strut(U)		Cam/Bolt(K)		4D CR-V Hybrid	23-23	★	ESC								
	Cam/Bolt(K)				TD CR-Z	11-15										
	Cam/Bolt(K)				TD CR-Z	16-16	★	ESC								
B-Joint(A)	B-Joint(A)	Arm(A)	Cam		4D Crosstour (incl. Accord Crosstour)	10-15										
	Cam/Bolt(K)	Arm(A)	Cam		4D Element	03-11										
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Fit	07-08										
	Cam/Bolt(K)				TD Fit	09-14										
	Cam/Bolt(K)		Cam		4D Fit EV	13-14										
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Fit	15-20	★	ESC								
	Cam/Bolt(K)				TD HR-V	16-22	★	ESC								
	Strut(U)		Cam/Bolt(K)		4D HR-V	23-23	★	ESC								
	Cam/Bolt(K)				TD Insight	00-14										
	Strut(U)		Cam/Bolt(K)		4D Insight	19-22	★	ESC								
Strut Rod	B-Joint(A)		Cam		4D Odyssey	95-98										
	Cam/Bolt(K)	Arm(A)	Cam		4D Odyssey	99-17										
			Cam		4 Odyssey	18-23	★	ESC								
Shim(O)	Shim(O)				TD Passport	94-02										
		B-Joint(A)	Cam		4D Passport	19-23	★	ESC								
	Strut(L)	Arm(A)	Cam		4D Pilot	03-15										
		B-Joint(A)	Cam		4D Pilot	16-22	★	ESC								
	Strut(U)		Cam		4D Pilot	23-23	★	ESC								
Strut Rod	B-Joint(A)		Cam		4D Prelude	92-96										
Strut Rod	B-Joint(A)	Cam	Tie Rod		4D Prelude 4WS	92-95										
Strut Rod	B-Joint(A)		Cam		4D Prelude exc/Type SH	97-01										
Strut Rod	B-Joint(A)		Cam		4D Prelude Type SH	97-01										
	Strut(L)	Arm(A)	Cam		4D Ridgeline	06-14	★	ESC								
		B-Joint(A)	Cam		4D Ridgeline	17-23	★	ESC								
Cam	Cam	Cam	Cam		4 S2000	00-09										

Wheel Alignment Key	
Additional parts/procedure might be needed	
Aftermarket parts required	
4 4-wheel alignment, equipped with standard factory adjustments	
4D 4-wheel alignment, may require additional parts/procedures	
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment	
T Thrust-line alignment (no rear adjustments)	
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description	
Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator	
★ Vehicle requires safety system alignment or notes	
Reset Required - Standard feature Use CodeLink or OEM scan tool	
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool	
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)	
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)	

ESC Electronic Stability Control (Honda) VSA Vehicle Stability Assist

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					HUMMER			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model		Years	★										
Shim(O)	Shim(O)	Shim(O)	Tie Rod		4D	H1	92-98				ESC ACC LDW AEB 4WS NVS AFS FCW RCS							
Cam	Cam	Cam	Tie Rod		4	H1	98-06											
Cam	Cam				T	H2	03-09											
Cam	Cam				T	H3	06-10											
Wheel Alignment Adjustments					HYUNDAI			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model		Years	★										
	Cam(K)	Cam(K)	Cam		4D	Accent	95-05											
	Cam(K)	Shim(A)	Shim(A)		4S	Accent	06-17											
	Cam(K)				TD	Accent	18-22	★	EPS									
	B-Joint(A)	Cam	Cam		4D	Azera	06-11											
		Cam	Cam		4	Azera	12-17	★	EPS									
	Cam(K)		Cam		4D	Elantra	96-00											
	Cam(K)	Cam(K)	Tie Rod		4D	Elantra	01-06											
	Cam(K)	Arm(A)	Cam		4D	Elantra	07-10	★	EPS									
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S	Elantra Sedan/Coupe	11-16	★	EPS									
	Cam/Bolt(K)				TD	Elantra Sedan	17-20	★	EPS									
	Cam/Bolt(K)	Cam	Cam		4D	Elantra Sedan Sport (w/IRS)	17-20	★	EPS									
	Cam/Bolt(K)				TD	Elantra GT	13-20	★	EPS									
	Cam/Bolt(K)	Cam	Cam		4D	Elantra GT Sport (w/IRS)	18-20	★	EPS									
	Cam/Bolt(K)	Arm(A)	Cam		4D	Elantra Touring	09-12	★	EPS									
	Cam/Bolt(K)				TD	Elantra	21-23	★	EPS									
	Cam/Bolt(K)	Cam	Cam		4D	Elantra N / N-Line (w/IRS)	21-23	★	EPS									
	Cam/Bolt(K)	Cam	Cam		4D	Elantra Hybrid	21-23	★	EPS									
	Cam(K)	Cam	Cam		4D	Entourage	07-09											
	Shim(A)	Cam	Cam		4D	Equus	11-16											
	Shim(A)	Cam	Cam		4D	Genesis Sedan	09-14											
	Shim(A)	Cam	Cam		4D	Genesis Sedan	15-16	★	EPS									
	Cam/Bolt(K)	Cam	Cam		4D	Genesis Coupe	10-16											
	Cam/Bolt(K)	Cam	Cam		4D	Ioniq HEV/PHEV	17-22	★	EPS									
	Cam/Bolt(K)				TD	Ioniq EV	17-22	★	EPS									
	Cam/Bolt(K)	Cam	Cam		4D	Ioniq 5	22-23	★	EPS									
	Cam/Bolt(K)	Cam	Cam		4D	Ioniq 6	23-23	★	EPS									

Wheel Alignment Key		
	Additional parts/procedure might be needed	
	Aftermarket parts required	
4	4-wheel alignment, equipped with standard factory adjustments	
4D	4-wheel alignment, may require additional parts/procedures	
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment	
T	Thrust-line alignment (no rear adjustments)	
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A)	Aftermarket Part
(B-J)	Ball-Joint

(K)	Kit
(L)	Lower

(O)	OEM Part
(U)	Upper

| Notes | |
| No Notes | |

Description	
	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
	Reset Required - Standard feature Use CodeLink or OEM scan tool
	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

EPS	Electronic Power Steering	(Hummer)	Stabilitrak
ESC	Electronic Stability Control	(Hyundai)	Electronic Stability Control

| Safety System Key | | | |
| No Additional Requirements | | | |

Wheel Alignment Adjustments					HYUNDAI			Safety System Alignment Resets								
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		EPS	ACC	LDW	AEB	4WS	NVS	AFS	FCW
	Cam/Bolt(K)				TD Kona FWD (exc/Kona N)	18-23	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Kona FWD (Kona N)	22-23	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Kona AWD	18-23	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Kona EV	19-23	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Nexo FCEV	19-23	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Palisade	20-23	★		EPS							
	Cam(K)	Cam	Cam		4D Santa Cruz	22-23	★		EPS			AEB				
	Cam(K)	Cam	Cam		4D Santa Fe	01-12										
	Cam(K)	Cam	Cam		4D Santa Fe	13-18	★		EPS							
	Cam(K)	Cam	Cam		4D Santa Fe	19-23	★		EPS							
	Cam(K)	Cam	Cam		4D Santa Fe XL	19-19	★		EPS							
	Cam(K)	Cam	Cam		4D Santa Fe Hybrid (HEV/PHEV)	21-23	★		EPS							
	Cam(K)	Cam	Cam		4D Sonata	95-98										
B-Joint(A)	B-Joint(A)		Cam		4D Sonata	99-05										
	B-Joint(A)	Cam	Cam		4D Sonata	06-10										
	Cam/Bolt(K)	Cam	Cam		4D Sonata	11-19	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Sonata	20-23	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Sonata Hybrid (incl. PHEV)	11-19	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Sonata Hybrid (incl. PHEV)	20-23	★		EPS							
	Cam(K)	Cam(K)	Cam		4D Tiburon	97-01										
	Cam(K)	Cam(K)	Tie Rod		4D Tiburon	03-08										
	Cam(K)	Cam(K)	Tie Rod		4D Tucson	05-09										
	Cam(K)	Cam	Cam		4D Tucson	10-21	★		EPS							
	Cam(K)	Cam	Cam		4D Tucson FCEV	15-17	★		EPS							
	Cam(K)	Cam	Cam		4D Tucson	22-23	★		EPS			AEB				
	Cam(K)	Cam	Cam		4D Tucson Hybrid (HEV/PEV)	22-23	★		EPS			AEB				
	Cam(K)	Shim(A)	Shim(A)		4S Veloster	12-17	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Veloster (incl. Veloster N)	19-22	★		EPS							
	Cam(K)				TD Venue	20-23	★		EPS							
	Cam(K)	Cam	Cam		4D Veracruz	07-13										
	B-Joint(A)		Cam		4D XG 300 / XG 350	01-05										

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

AEB Automatic Emergency Braking	(Hyundai) Electronic Stability Control
EPS Electronic Power Steering	

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					INFINITI			Safety System Alignment Resets								
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model		Years	★		ACC	LDW	AEB	4WS	NVS	AFS	FCW
Arm(A)	Arm(A)	Cam	Cam		4D	EX (35,37)	08-13	★	ESC							
Arm(A)	Arm(A)/Cam (K)	Cam	Cam		4D	FX (35,37,45,50)	03-13	★	ESC							
			Cam		4	G20	91-96									
					T	G20	99-02									
Arm(A)	Arm(A)	Cam	Cam		4D	G (25,35,37)	03-13	★	ESC							
	Cam(K)				TD	I (30,35)	96-04	★	ESC							
		Cam	Cam		4	J30	93-97									
		Cam	Tie Rod		4	J30 w/HICAS System	93-96									
	Cam(K)	Cam	Cam		4D	JX35	13-13	★	ESC							
Arm(A)	Arm(A)	Cam	Cam		4D	M (35/45)	03-10	★	ESC							
		Cam	Cam		4	M (37/56)	11-13	★	ESC							
		Cam	Tie Rod		4	M (37/56) w/4-Wheel Active Steering	11-13	★	ESC							
		Cam	Cam		4	M Hybrid (35h)	12-13	★	ESC							
Arm(A)	Arm(A)	Cam	Cam		4D	Q40	15-15	★	ESC							
		Cam	Cam		4	Q45	90-01									
		Cam	Tie Rod		4	Q45 w/HICAS System	90-96									
		Cam	Cam		4	Q45	02-06	★	ESC							
Arm(A)	Arm(A)	Cam	Cam		4D	Q50	14-23	★	ESC							
Arm(A)	Arm(A)	Cam	Cam		4D	Q50 w/Direct Adaptive Steering	14-23	★	ESC						AFS	
Arm(A)	Arm(A)	Cam	Cam		4D	Q50 Hybrid	14-20	★	ESC						AFS	
Arm(A)	Arm(A)	Cam	Cam		4D	Q60	14-22	★	ESC							
Arm(A)	Arm(A)	Cam	Cam		4D	Q60 w/Direct Adaptive Steering	17-22	★	ESC						AFS	
		Cam	Cam		4	Q70	14-19	★	ESC							
		Cam	Cam		4	Q70 Hybrid	14-16	★	ESC							
		Cam	Cam		4	Q70 Hybrid	17-18	★	ESC							
	Cam(K)				TD	QX4	97-03									
	Strut(L)		Cam		4	QX30	17-19									
Arm(A)	Arm(A)	Cam	Cam		4D	QX50	14-17	★	ESC							
		Cam	Cam		4	QX50	19-23	★	ESC							
		Cam	Cam		4	QX50 w/Direct Adaptive Steering	19-23	★	ESC						AFS	
		Cam	Cam		4	QX55	22-23	★	ESC							

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

AFS Active Front Steering (Infiniti) Vehicle Dynamic Control
ESC Electronic Stability Control

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					INFINITI		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS
		Cam	Cam		4 QX55 w/Direct Adaptive Steering	22-23	★	ESC						AFS		
Cam	Cam	Cam	Cam		4 QX56	04-13	★	ESC								
	Cam(K)	Cam	Cam		4D QX60	14-20	★	ESC								
	Cam(K)	Cam	Cam		4D QX60	22-23	★	ESC								
	Cam(K)	Cam	Cam		4D QX60 Hybrid	14-19	★	ESC								
Arm(A)	Arm(A)/Cam(K)	Cam	Cam		4D QX70	14-17	★	ESC								
Cam	Cam	Cam	Cam		4 QX80	14-23	★	ESC								
Wheel Alignment Adjustments					ISUZU		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS
Shim(O)	Shim(O)				TD Amigo	98-00										
Arm-Slot	Arm-Slot				T Ascender	03-09										
Arm-Slot	Arm-Slot				T Ascender	06-09										
Shim(O)	Shim(O)				TD Axiom	02-04										
Shim(O)	Shim(O)				TD Hombre 4X2	96-01										
Cam	Cam				T Hombre 4X4	98-01										
Cam	Cam				T i-280/i-290/i-350/i-370 Pickup	06-09										
Strut Rod			Cam		4D Oasis	96-99										
Shim(O)	Shim(O)				TD Rodeo/Rodeo Sport	91-04										
Shim(O)	Shim(O)				TD Trooper / Trooper II	84-02										
Shim(O)	Shim(O)				TD VehiCross	99-01										

Wheel Alignment Key

▲	Additional parts/procedure might be needed
■	Aftermarket parts required
4	4-wheel alignment, equipped with standard factory adjustments
4D	4-wheel alignment, may require additional parts/procedures
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T	Thrust-line alignment (no rear adjustments)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper

Notes

No Notes

Description

▼	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
■	Reset Required - Standard feature Use CodeLink or OEM scan tool
■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

AFS	Active Front Steering	(Infiniti)	Vehicle Dynamic Control
ESC	Electronic Stability Control		

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					JAGUAR		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS
			Cam		4 E-PACE	18-23	★	ESC								
			Cam	8	4 F-PACE	17-23	★									
Cam	Cam		Tie Rod		4 F-Type	14-24										
			Cam	8	4 I-PACE	19-23	★	ESC								
Cam(K)	Cam(K)		Tie Rod		4D S-Type	00-08										
			Cam		4 X-Type	02-08										
			Cam	8	4 XE	17-20	★									
	Shim(O)	Shim(O)	Cam		4D XE SV Project 8 (5.0L)	19-19	★	ESC								
Cam	Cam		Tie Rod		4 XF/XFR	09-15										
			Cam	8	4 XF	16-23	★									
Shim(O)		Shim(O)	Cam	4	4D XJ/XJR	88-97	★									
Shim(O)	Cam	Shim(O)	Cam		4D XJ/XJR	98-03										
Cam	Cam		Tie Rod	8	4 XJ/XJR	04-19	★									
Shim(O)	Shim(O)	Shim(O)		4	4D XJS	76-96	★									
	Bolt Kit	Shim(O)	Cam		4D XK8/XKR	97-06										
Cam	Cam		Tie Rod		4 XK8/XKR	07-15										

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

- 4 May require special OEM procedures/tools
- 8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ESC Electronic Stability Control (Jaguar) Dynamic Stability Control

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					JEEP		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	EPS	ACC	LDW	AEB	4WS	NVS	AFS	FCW
Shim(O)	B-Joint(A)				TD Cherokee / Wagoneer (XJ)	84-01										
Subframe	Subframe	Cam	Cam		4D Cherokee (KL)	14-18	★		EPS	ACC ◀						
Subframe	Subframe	Cam	Cam		4D Cherokee (KL)	19-23	★		EPS	ACC						
Arm-Slot	Arm-Slot				T Commander (XK)	06-10										
Sub/Bolt(K)	Sub/Bolt(K)	Cam(K)	Cam		4D Compass (MK)	07-17										
Subframe	Subframe		Cam		4D Compass (MP)	17-18	★ ↑		EPS	ACC ◀						
Subframe	Subframe		Cam		4D Compass (MP)	19-23	★		EPS	ACC						
Cam	Bushing				TD Gladiator (JT)	20-23										
Cam	B-Joint(A)				TD Grand Cherokee (ZJ)	93-98										
B-Joint(A)	B-Joint(A)				TD Grand Cherokee (WJ)	99-04										
Arm-Slot	Arm-Slot				T Grand Cherokee (WK)	05-10										
Arm-Slot	Arm-Slot	Cam	Cam		4 Grand Cherokee (WK)	11-18	★			ACC ◀						
Arm-Slot	Arm-Slot	Cam	Cam		4 Grand Cherokee (WK) Trackhawk	18-18	★			ACC						
Arm-Slot	Arm-Slot	Cam	Cam		4 Grand Cherokee (WK)	19-22	★			ACC						
	Bolt Kit	Cam	Cam		4D Grand Cherokee (WL)	21-23										
Cam	Cam	Cam	Cam		4 Grand Wagoneer (WS)	22-23										
Cam	Cam				T Liberty (KJ/KK)	02-12										
Sub/Bolt(K)	Sub/Bolt(K)	Cam(K)	Cam		4D Patriot (MK)	07-17										
			Cam		4 Renegade (BU)	15-17	★ ↑		EPS	ACC						
			Cam		4 Renegade (BU/BV)	18-23	★		EPS	ACC						
Cam	Cam	Cam	Cam		4 Wagoneer (WS)	22-23										
Cam	B-Joint(A)				TD Wrangler (TJ)	97-98										
Cam	B-Joint(A)				TD Wrangler (TJ/JK)	99-18										
Cam	Bushing				TD Wrangler (JL)	18-23										
Wheel Alignment Adjustments					KARMA AUTOMOTIVE		Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB	4WS	NVS	AFS	FCW	RCS
Cam	Cam	Cam	Tie Rod		4 Revero	17-18										

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ACC Adaptive Cruise Control (Jeep) Electronic Stabilization Program

Safety System Key

- ↑ Requires CodeLink® OEM exp. Cable
- ◀ Requires CodeLink©2 WinAlign 15.x or newer and special tools or fixtures

Wheel Alignment Adjustments					KIA			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		EPS	ACC	LDW		AEB	4WS	NVS	AFS	FCW
	B-Joint(A)		Cam		4D Amanti	04-06											
	B-Joint(A)	Cam	Cam		4D Amanti	07-09											
		Cam	Cam		4 Borrego	09-11											
	Cam/Bolt(K)	Cam	Cam		4D Cadenza	14-16	★		EPS	ACC							
	Cam/Bolt(K)	Cam	Cam		4D Cadenza	17-19	★		EPS	ACC			AEB				
	Cam/Bolt(K)	Cam	Cam		4D Cadenza	20-21	★		EPS								
	Cam/Bolt(K)	Cam	Cam		4D Carnival	22-23	★		EPS								
	Cam/Bolt(K)	Cam	Cam		4D EV6	22-23	★		EPS								
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Forte w/Electric Power Steering (EPS)	10-13	★		EPS								
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Forte w/Hydraulic Power Steering	10-13											
	Cam/Bolt(K)				TD Forte	14-18	★		EPS				AEB				
	Cam/Bolt(K)				TD Forte	19-23	★		EPS	ACC			AEB				
	Cam/Bolt(K)	Cam	Cam		4D Forte GT (IRS)	20-23	★		EPS	ACC			AEB				
	Cam/Bolt(K)	Cam	Cam		4D K5	21-23	★		EPS								
	Shim(A)	Cam	Cam		4D K900	15-18											
		Cam	Cam		4 K900	19-20	★		EPS								
	Cam/Bolt(K)	Cam	Cam		4D Niro HEV/PHEV	17-19	★		EPS	ACC							
	Cam/Bolt(K)	Cam	Cam		4D Niro HEV/PHEV	20-22	★		EPS								
	Cam/Bolt(K)	Cam	Cam		4D Niro EV	19-22	★		EPS				AEB				
	Cam/Bolt(K)	Cam	Cam		4D Niro EV/HEV/PHEV	23-23	★		EPS								
	B-Joint(A)		Cam		4D Optima/Magentis	01-06											
	Cam/Bolt(K)	Cam	Cam		4D Optima (2006.5-)/Magentis	06-10											
	Cam(K)	Cam	Cam		4D Optima	11-15	★		EPS								
	Cam/Bolt(K)	Cam	Cam		4D Optima	16-20	★		EPS	ACC							
	Cam(K)	Cam	Cam		4D Optima Hybrid	11-16	★		EPS								
	Cam/Bolt(K)	Cam	Cam		4D Optima Hybrid (HEV/PHEV)	17-20	★		EPS	ACC							
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Rio	01-11											
	Cam(K)	Shim(A)	Shim(A)		4S Rio	12-17	★		EPS								
	Cam(K)				TD Rio	18-23	★		EPS				AEB				
	Cam/Bolt(K)	Arm(A)	Cam		4D Rondo	07-12											
	Cam/Bolt(K)				TD Rondo	14-18	★		EPS								
Strut(U)	Strut(U)				T Sedona	02-05											
	Cam/Bolt(K)	Cam	Cam		4D Sedona	06-14											

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ACC	Adaptive Cruise Control	(Kia) Electronic Stability Control
AEB	Automatic Emergency Braking	
EPS	Electronic Power Steering	

Safety System Key

Wheel Alignment Adjustments					KIA			Safety System Alignment Resets								
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		EPS	ACC		AEB	4WS	NVS	AFS	FCW
	Cam/Bolt(K)	Cam	Cam		4D Sedona w/Electric Power Steering (EPS)	15-21	★		EPS	ACC						
	Cam/Bolt(K)	Cam	Cam		4D Sedona w/Hydraulic Power Steering	15-21										
	Cam(K)				TD Seltos 4X2	21-23	★		EPS							
	Cam(K)	Cam	Cam		4D Seltos 4X2 w/IRS	22-23	★		EPS							
	Cam(K)	Cam	Cam		4D Seltos 4X4	21-23	★		EPS							
Strut(U)	Strut(U)	Cam/Bolt (K)	Tie Rod		4D Sephia	93-01										
Cam	Cam				T Sorento	03-09										
	Cam/Bolt(K)	Cam	Cam		4D Sorento	11-13										
	Cam/Bolt(K)	Cam	Cam		4D Sorento	14-15	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Sorento	16-20	★		EPS	ACC						
	Cam/Bolt(K)	Cam	Cam		4D Sorento	21-23	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Sorento Hybrid (HEV/PHEV)	21-23	★		EPS							
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Soul	10-11										
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Soul	12-13	★		EPS							
	Cam/Bolt(K)				TD Soul	14-17	★		EPS							
	Cam/Bolt(K)				TD Soul	18-19	★		EPS	ACC		AEB				
	Cam/Bolt(K)				TD Soul EV	15-19	★		EPS							
	Cam/Bolt(K)				TD Soul	20-23	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Soul EV	20-23	★		EPS							
Strut(U)	Strut(U)	Cam/Bolt (K)	Tie Rod		4D Spectra 1.8L	00-04										
	Cam/Bolt(K)	Cam/Bolt (K)	Tie Rod		4D Spectra/Spectra5 2.0L	04-09										
Cam	Cam				T Sportage	95-02										
	Cam(K)	Cam(K)	Tie Rod		4D Sportage	05-10										
	Cam(K)	Cam	Cam		4D Sportage	11-16	★		EPS							
	Cam(K)	Cam	Cam		4D Sportage	17-20	★		EPS			AEB▶				
	Cam(K)	Cam	Cam		4D Sportage	21-22	★		EPS			AEB				
	Cam(K)	Cam	Cam		4D Sportage	23-23	★		EPS							
		Cam	Cam		4 Stinger	18-23	★		EPS							
	Cam/Bolt(K)	Cam	Cam		4D Telluride	20-23	★		EPS							

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ACC Adaptive Cruise Control	(Kia) Electronic Stability Control
AEB Automatic Emergency Braking	EPS Electronic Power Steering

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					LAMBORGHINI			Safety System Alignment Resets							
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ACC	LDW	4WS	NVS	AFS	RCS	AFL
Shim(O)	Shim(O)	Shim(O)	Cam	4	4D Aventadòr	12-16	★								
Shim(O)	Shim(O)	Shim(O)	Cam	48	4D Aventadòr J	12-12	★								
Shim(O)	Shim(O)	Shim(O)	Cam	4	4D Aventadòr	17-22	★						AFS		
Shim(O)	Shim(O)	Shim(O)	Cam	4	4D Centenario	17-17	★						AFS		
Cam/Shim(O)	Cam	Cam	Cam	48	4D Diablo	90-01	★								
Shim(O)	Shim(O)	Shim(O)	Shim(O)	48	4D Gallardo	04-08	★								
Cam	Cam	Cam	Cam	4	4 Gallardo	09-14	★								
Shim(O)	Shim(O)	Shim(O)	Tie Rod	4	4D Huracán	15-23	★	ESC					AFS		
Cam	Cam	Cam	Cam	48	4 Murciélago	05-10	★								
Cam	Cam	Cam	Cam	48	4 Reventòn	09-10	★								
	Subframe	Cam	Cam	48	4D Urus	19-23	★	ESC	ACC	LDW	4WS	NVS		RCS	AFL
Shim(O)	Shim(O)	Shim(O)	Cam	48	4D Veneno	14-15	★								
Wheel Alignment Adjustments					LAND ROVER			Safety System Alignment Resets							
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ACC	LDW	4WS	NVS	AFS	RCS	
					T Defender	89-97									
			Cam		4 Defender w/Coil Spring Suspension	20-23									
			Cam	8	4 Defender w/Air Suspension	20-23	★								
			Cam		4 Defender Hybrid w/Coil Spring Suspension	20-23	★	ESC							
			Cam	8	4 Defender Hybrid w/Air Suspension	20-23	★	ESC							
					T Discovery	94-04									
			Cam		4 Discovery w/Coil Spring Suspension	17-20									
			Cam	8	4 Discovery w/Air Suspension	17-20	★								
			Cam	8	4 Discovery	21-23	★								
			Cam	8	4 Discovery Hybrid	21-23	★	ESC							
			Cam		4 Discovery Sport	15-19	★	ESC							
			Cam		4 Discovery Sport	20-23	★	ESC							
	Cam/Bolt(K)	Cam/Bolt(K)	Tie Rod		4D Freelander	02-05									
			Cam		4 LR2	08-15	★	ESC							
Cam	Cam	Cam	Tie Rod		4 LR3 w/Coil Spring Suspension	05-09	★	ESC							

Wheel Alignment Key			Description		
Additional parts/procedure might be needed			Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator		
Aftermarket parts required			★ Vehicle requires safety system alignment or notes		
4 4-wheel alignment, equipped with standard factory adjustments			Reset Required - Standard feature Use CodeLink or OEM scan tool		
4D 4-wheel alignment, may require additional parts/procedures			Optional feature - Reset required if present Use CodeLink or OEM Scan Tool		
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment			Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)		
T Thrust-line alignment (no rear adjustments)			Reset required - Standard Feature, Use OEM scan tool (No CL support yet)		
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures					
			4WS Four-Wheel Steering ACC Adaptive Cruise Control AEB Automatic Emergency Braking ESC Electronic Stability Control LDW Lane Departure Warning (Kia) Electronic Stability Control AFL Adaptive Front Lighting AFS Active Front Steering EPS Electronic Power Steering NVS Night Vision System		
			Safety System Key ► Requires CodeLink©2 WinAlign 16.x or newer and special tools or fixtures		
Notes 4 May require special OEM procedures/tools 8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.					

Wheel Alignment Adjustments					LAND ROVER				Safety System Alignment Resets								
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model		Years	★		ACC	LDW	4WS		AFS	RCS		
Cam	Cam	Cam	Tie Rod	8	4	LR3 w/Air Suspension	05-09	★	ESC								
Cam	Cam	Cam	Tie Rod		4	LR4 w/Coil Spring Suspension	10-16	★	ESC								
Cam	Cam	Cam	Tie Rod	8	4	LR4 w/Air Suspension	10-16	★	ESC								
					T	Range Rover	85-02										
						Strut(U)	Cam	Cam	8	4	Range Rover	03-06	★	ESC			
						Strut(U)	Cam	Cam	8	4	Range Rover	07-12	★	ESC			
							Cam	8	4	Range Rover (L405)	13-22	★					
							Cam	8	4	Range Rover (L405) Hybrid	18-22	★	ESC				
							Cam	8	4	Range Rover NEW (L460)	22-23	★		4WS			
							Cam		4	Range Rover Evoque	12-19	★	ESC				
							Cam		4	Range Rover Evoque	20-23	★	ESC				
Cam	Cam	Cam	Tie Rod	8	4	Range Rover Sport	06-09	★	ESC								
Cam	Cam	Cam	Tie Rod	8	4	Range Rover Sport	10-13	★	ESC								
							Cam		4	Range Rover Sport w/Coil Spring Suspension	14-22						
							Cam	8	4	Range Rover Sport w/Air Suspension	14-22	★					
							Cam		4	Range Rover Sport Hybrid w/Coil Spring Suspension	18-22	★	ESC				
							Cam	8	4	Range Rover Sport Hybrid w/Air Suspension	18-22	★	ESC				
							Cam	8	4	Range Rover Sport (L461)	23-23	★		4WS			
							Cam	8	4	Range Rover Velar	18-23	★					

Wheel Alignment Key

▲	Additional parts/procedure might be needed
■	Aftermarket parts required
4	4-wheel alignment, equipped with standard factory adjustments
4D	4-wheel alignment, may require additional parts/procedures
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T	Thrust-line alignment (no rear adjustments)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper

Notes

- 8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.

Description

▼	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
■	Reset Required - Standard feature Use CodeLink or OEM scan tool
■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

4WS Four-Wheel Steering (Land Rover) Dynamic Stability Control
ESC Electronic Stability Control

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					LEXUS			Safety System Alignment Resets						
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ACC	LDW		NVS	AFS	RCS
	Cam/Bolt(K)	Arm(A)	Cam		4D CT 200h	11-17	★	ESC						
	Cam/Bolt(K)	Cam/Bolt (K)	Tie Rod		4D ES (300, 330, 350)	92-98								
	Cam/Bolt(K)	Cam/Bolt (K)	Tie Rod		4D ES (300, 330, 350)	99-06	★	ESC						
	Cam/Bolt(K)	Cam/Bolt (K)	Tie Rod		4D ES (300, 330, 350)	07-12	★	ESC						
	Cam/Bolt(K)	Cam/Bolt (K)	Tie Rod	4	4D ES (350, 300h)	13-15	★	ESC		LDW				
	Cam/Bolt(K)	Cam/Bolt (K)	Tie Rod		4D ES (350, 300h)	16-18	★	ESC						
	Cam/Bolt(K)		Cam		4D ES (250, 350, 300h)	19-23	★	ESC						
Cam	Cam	Cam	Cam		4 GS 300	93-97								
Arm(A)	Cam	Cam	Cam		4D GS (300, 400, 430)	98-05	★	ESC						
Bushing	B-Joint(A)	Arm(A)	Cam		4D GS (300, 350, 430) 4X2	06-11	★	ESC						
Bushing	Cam	Arm(A)	Cam		4D GS (300, 350) 4X4	06-11	★	ESC						
Bushing	B-Joint(A)	Arm(A)	Cam		4D GS 460	08-11	★	ESC						AFS
Bushing	B-Joint(A)	Arm(A)	Cam		4D GS 450h	06-11	★	ESC						AFS
Bushing		Arm(A)	Cam	4	4D GS 350 4X2	13-15	★	ESC		LDW			NVS	
Bushing		Arm(A)	Tie Rod	4	4D GS 350 4X2 w/Dynamic Rear Steering and/or VGRS	13-15	★	ESC		LDW		4WS	NVS	AFS
	Cam	Arm(A)	Cam	4	4D GS 350 4X4	13-15	★	ESC		LDW			NVS	
	Cam	Arm(A)	Tie Rod	4	4D GS 350 4X4 w/Dynamic Rear Steering and/or VGRS	13-15	★	ESC		LDW		4WS	NVS	AFS
Bushing		Arm(A)	Cam	4	4D GS 450h	13-15	★	ESC		LDW			NVS	
Bushing		Arm(A)	Tie Rod	4	4D GS 450h F SPORT (Dynamic Rear Steering / VGRS)	15-15	★	ESC		LDW		4WS	NVS	AFS
Bushing		Arm(A)	Cam		4D GS (200t, 300, 350) 4X2	16-20	★	ESC						
Bushing		Arm(A)	Tie Rod	4	4D GS (200t, 300, 350) 4X2 w/Dynamic Rear Steering and/or VGRS	16-20	★	ESC				4WS		AFS
	Cam	Arm(A)	Cam		4D GS 350 4X4	16-20	★	ESC						
	Cam	Arm(A)	Tie Rod	4	4D GS 350 4X4 w/Dynamic Rear Steering and/or VGRS	16-20	★	ESC				4WS		AFS
Bushing			Cam		4D GS 450h	16-18	★	ESC						

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

4 May require special OEM procedures/tools

4WS Four-Wheel Steering (Lexus)	Vehicle Stability Control / Vehicle Dynamic Integrated Management
AFS Active Front Steering	
ESC Electronic Stability Control	
LDW Lane Departure Warning	
NVS Night Vision System	

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					LEXUS			Safety System Alignment Resets						
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ACC	LDW		NVS	AFS	RCS
Bushing			Tie Rod	4	4D GS 450h F SPORT (Dynamic Rear Steering / VGRS)	16-18	★	ESC				4WS		AFS
Bushing			Tie Rod		4D GS F	16-20	★	ESC						
Cam	Cam			4	T GX 460	10-15	★	ESC		LDW				
Cam	Cam			4	T GX 460	16-23	★	ESC						
Cam	Cam				T GX 470	03-09	★	ESC						
	Cam/Bolt(K)	Arm(A)	Tie Rod		4D HS 250h	10-10	★	ESC		LDW				
	Cam/Bolt(K)	Arm(A)	Cam		4D HS 250h	11-12	★	ESC		LDW				
	Cam	Cam	Cam		4 IS 300	01-01								
	Cam	Cam	Cam		4 IS 300	02-05	★	ESC						
Bushing	B-Joint(A)	Arm(A)	Cam		4D IS Sedan (250, 350, 250C, 350C) 4X2	06-13	★	ESC						
	Cam	Arm(A)	Cam		4D IS Sedan (250, 350) 4X4	06-13	★	ESC						
Bushing		Arm(A)	Cam		4D IS Sedan (200t, 250, 350) 4X2	14-16	★	ESC		LDW				
Bushing		Arm(A)	Cam	4	4D IS Sedan (200t, 250, 350) 4X2 w/VGRS	14-16	★	ESC		LDW				AFS
	Cam		Cam		4 IS Sedan (250, 300, 350) 4X4	14-16	★	ESC		LDW				
	Cam		Cam	4	4 IS Sedan (250, 300, 350) 4X4 w/VGRS	14-16	★	ESC		LDW				AFS
Bushing		Arm(A)	Cam		4D IS Sedan (200t, 300, 350) 4X2	17-20	★	ESC						
Bushing		Arm(A)	Cam	4	4D IS Sedan (200t, 300, 350) 4X2 w/VGRS	17-20	★	ESC						AFS
	Cam		Cam		4 IS Sedan (300, 350) 4X4	17-20	★	ESC						
	Cam		Cam	4	4 IS Sedan (300, 350) 4X4 w/VGRS	17-20	★	ESC						AFS
Bushing			Cam		4D IS Sedan (300, 350, 500) 4X2	21-23	★	ESC						
	Cam		Cam		4 IS Sedan (300, 350) 4X4	21-23	★	ESC						
Bushing			Cam		4D IS Convertible (250C, 350C)	10-15	★	ESC						
Bushing			Cam		4D IS F	08-10	★	ESC						
Bushing			Cam		4D IS F	11-14	★	ESC						
			Cam		4 LC 500 Coupe	18-23	★	ESC						

Wheel Alignment Key	Description
Additional parts/procedure might be needed	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
Aftermarket parts required	★ Vehicle requires safety system alignment or notes
4 4-wheel alignment, equipped with standard factory adjustments	Reset Required - Standard feature Use CodeLink or OEM scan tool
4D 4-wheel alignment, may require additional parts/procedures	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T Thrust-line alignment (no rear adjustments)	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A) Aftermarket Part (K) Kit (O) OEM Part
(B-J) Ball-Joint (L) Lower (U) Upper

Notes

4 May require special OEM procedures/tools

4WS Four-Wheel Steering (Lexus) Vehicle Stability Control /
ESC Electronic Stability Control Vehicle Dynamic Integrated
LDW Lane Departure Warning Management
AFS Active Front Steering

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments						LEXUS		Safety System Alignment Resets					
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC LDW	AEB 4WS	NVS	AFS	RCS
			Tie Rod	4	4 LC 500 Coupe w/Dynamic Rear Steering and/or VGRS	18-23	★	ESC		4WS		AFS	
			Cam		4 LC 500C Convertible	21-23	★	ESC					
			Cam		4 LC 500h	18-23	★	ESC	LDW				
			Tie Rod	4	4 LC 500h w/Dynamic Rear Steering and/or VGRS	18-23	★	ESC	LDW	4WS		AFS	
Cam	Cam	Cam	Cam		4 LFA	12-12	★	ESC					
Cam	Cam	Cam	Cam		4 LS 400	95-97							
Cam	Cam	Cam	Cam		4 LS 400	98-00	★	ESC					
Bushing	Cam	Arm(O)	Cam	8	4D LS 430	01-06	★	ESC					
Subframe	Subframe/Bracket		Cam	48	4D LS (460, 460L) 4X2	07-12	★	ESC	LDW				
Subframe	Subframe/Bracket		Cam	48	4D LS (460, 460L) 4X2 w/VGRS	07-12	★	ESC	LDW			AFS	
Cam	Cam		Cam	48	4 LS (460, 460L) 4X4	09-12	★	ESC	LDW				
Cam	Cam		Cam	48	4 LS (460, 460L) 4X4 w/VGRS	09-12	★	ESC	LDW			AFS	
Subframe	Subframe/Bracket		Cam	48	4D LS (460, 460L) 4X2	13-17	★	ESC	LDW		NVS		
Subframe	Subframe/Bracket		Cam	48	4D LS (460, 460L) 4X2 w/VGRS	13-17	★	ESC	LDW		NVS	AFS	
Cam	Cam		Cam	48	4 LS (460, 460L) 4X4	13-17	★	ESC	LDW		NVS		
Cam	Cam		Cam	48	4 LS (460, 460L) 4X4 w/VGRS	13-17	★	ESC	LDW		NVS	AFS	
Cam	Cam		Cam	48	4 LS 600hL	08-12	★	ESC	LDW			AFS	
Cam	Cam		Cam	48	4 LS 600hL	13-16	★	ESC	LDW		NVS	AFS	
			Cam	8	4 LS (500, 500h) 4X2	18-20	★	ESC					
			Tie Rod	48	4 LS (500, 500h) 4X2 w/Dynamic Rear Steering and/or VGRS	18-20	★	ESC		4WS		AFS	
Cam	Cam		Cam	8	4 LS (500, 500h) 4X4	18-20	★	ESC					
Cam	Cam		Tie Rod	48	4 LS (500, 500h) 4X4 w/Dynamic Rear Steering and/or VGRS	18-20	★	ESC		4WS		AFS	
			Cam	8	4 LS (500, 500h)	21-23	★	ESC					
			Tie Rod	48	4 LS (500, 500h) w/Dynamic Rear Steering and/or VGRS	21-23	★	ESC		4WS		AFS	

Wheel Alignment Key	Description
Additional parts/procedure might be needed	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
Aftermarket parts required	★ Vehicle requires safety system alignment or notes
4 4-wheel alignment, equipped with standard factory adjustments	Reset Required - Standard feature Use CodeLink or OEM scan tool
4D 4-wheel alignment, may require additional parts/procedures	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T Thrust-line alignment (no rear adjustments)	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A) Aftermarket Part (K) Kit (O) OEM Part
(B-J) Ball-Joint (L) Lower (U) Upper

Notes

- 4 May require special OEM procedures/tools
8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.

4WS Four-Wheel Steering (Lexus) Vehicle Stability Control / Vehicle
ESC Electronic Stability Control Dynamic Integrated Management
LDW Lane Departure Warning AFS Active Front Steering

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					LEXUS			Safety System Alignment Resets											
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB 4WS	NVS	AFS	RCS					
					T LX 450	96-97													
Cam	Cam				T LX (470, 570)	98-99	★						AFS						
Cam	Cam				T LX (470, 570)	00-21	★	ESC					AFS						
Cam	Cam				T LX (600)	22-23	★	ESC											
	Cam/Bolt(K)	Arm(A)	Cam		4D NX 200t	15-17	★	ESC		LDW									
	Cam/Bolt(K)	Arm(A)	Cam		4D NX 300	18-21	★	ESC											
	Cam/Bolt(K)	Arm(A)	Cam		4D NX 300h	15-17	★	ESC		LDW									
	Cam/Bolt(K)	Arm(A)	Cam		4D NX 300h	18-19	★	ESC											
	Cam/Bolt(K)	Arm(A)	Cam		4D NX 300h	20-21	★	ESC											
	Cam/Bolt(K)		Cam		4D NX (250, 350)	22-24	★	ESC											
	Cam/Bolt(K)		Cam		4D NX (350h, 450h+)	22-24	★	ESC											
Bushing		Arm(A)	Cam		4D RC (200t, 350) 4X2	15-17	★	ESC		LDW									
Bushing			Tie Rod	4	4D RC 350 4X2 w/VGRS (incl. Dynamic Rear Steering)	15-17	★	ESC		LDW	4WS		AFS						
	Cam	Arm(A)	Cam		4D RC (300, 350) 4X4	15-17	★	ESC		LDW									
Bushing			Cam		4D RC (300, 350) 4X2	18-23	★	ESC											
Bushing			Tie Rod	4	4D RC 350 4X2 w/VGRS (incl. Dynamic Rear Steering)	18-23	★	ESC			4WS		AFS						
	Cam	Arm(A)	Cam		4D RC (300, 350) 4X4	18-23	★	ESC											
Bushing			Tie Rod		4D RC F	15-17	★	ESC		LDW									
Bushing			Tie Rod		4D RC F	18-23	★	ESC											
	Cam/Bolt(K)		Cam		4D RX 300	99-00													
	Cam/Bolt(K)		Cam		4D RX 300	01-03	★	ESC											
	Cam/Bolt(K)	Cam/Bolt(K)	Tie Rod		4D RX (330, 350) 4X2	04-09	★	ESC											
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D RX (330, 350) 4X4	04-09	★	ESC											
	Cam/Bolt(K)	Cam/Bolt(K)	Tie Rod		4D RX 400h 4X2	06-08	★	ESC											
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D RX 400h 4X4	06-08	★	ESC											
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D RX (350, 450h)	10-15	★	ESC											
	Cam/Bolt(K)		Cam		4D RX 350(L)	16-22	★	ESC											
	Cam/Bolt(K)		Cam		4D RX 450h 4X2	16-16	★	ESC											
	Cam/Bolt(K)		Cam		4D RX 450h(L) 4X4	16-19	★	ESC											
	Cam/Bolt(K)		Cam		4D RX 450h(L)	20-22	★	ESC											
	Cam/Bolt(K)		Cam		4D RX (350, 350h, 450h+, 500h)	23-23	★	ESC											
	Cam/Bolt(K)		Cam		4D RZ 450e	23-23	★	ESC											
Cam	Cam	Cam	Cam		4 SC (300, 400)	92-00													
Wheel Alignment Key					Description														
Additional parts/procedure might be needed					Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator														
Aftermarket parts required					★ Vehicle requires safety system alignment or notes														
4 4-wheel alignment, equipped with standard factory adjustments					Reset Required - Standard feature Use CodeLink or OEM scan tool														
4D 4-wheel alignment, may require additional parts/procedures					Optional feature - Reset required if present Use CodeLink or OEM Scan Tool														
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment					Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)														
T Thrust-line alignment (no rear adjustments)					Reset required - Standard Feature, Use OEM scan tool (No CL support yet)														
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures																			
(A) Aftermarket Part (K) Kit (O) OEM Part					4WS Four-Wheel Steering (Lexus) Vehicle Stability Control / Vehicle					(B-J) Ball-Joint (L) Lower (U) Upper					ESC Electronic Stability Control Dynamic Integrated Management				
					LDW Lane Departure Warning					AFS Active Front Steering									
Notes					Safety System Key														
4 May require special OEM procedures/tools					No Additional Requirements														

Wheel Alignment Adjustments					LEXUS			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	ACC	LDW		AEB	4WS	NVS	AFS	RCS
	Cam	Cam	Cam		4 SC 430	02-10	★		ESC								
	Cam/Bolt(K)		Cam		4D UX (200, 250h)	19-24	★		ESC								
Wheel Alignment Adjustments					LINCOLN			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	ACC	LDW		AEB	4WS	NVS	AFS	RCS
Arm-Slot	Arm-Slot	Arm-Slot	Tie Rod		4 Aviator	03-05											
	Ctrl-Arm	Arm-Slot	Cam		4D Aviator	20-23	★				LDW					AFS	
Arm-Slot	Arm-Slot				T Blackwood	02-03											
Strut(U)	Strut(U)	Bushing	Cam		4D Continental	88-02											
	Cam/Bolt(K)	Arm-Slot	Cam		4D Continental	17-20	★				LDW	◀				AFS	
	Cam/Bolt(K)	Arm-Slot	Cam		4D Corsair	20-23	★				LDW						
Cam(K)	Cam(K)		Tie Rod		4D LS	00-06											
Cam(K)	Cam(K)				TD Mark LT	06-08											
Strut Rod	Cam	Cam	Cam		4 Mark VIII	93-98											
Subframe	Strut(U)	Arm(O)	Cam		4D MKC	15-19	★				LDW	◀					
	Strut(U)	Arm-Slot	Tie Rod		4 MKS	09-12											
	Strut(U)	Arm-Slot	Tie Rod		4 MKS	13-16	★				LDW	◀					
	Strut(U)	Arm-Slot	Tie Rod		4 MKT	10-12											
	Strut(U)	Arm-Slot	Tie Rod		4 MKT	13-19	★				LDW	◀					
	Strut(U)	Cam	Cam		4 MKX	07-15											
	Cam/Bolt(K)	Arm-Slot	Cam		4D MKX	16-18	★				LDW	◀				AFS	◀
Ctrl-Arm	B-Joint(A)	Cam	Tie Rod		4D MKZ	07-12											
	Strut(L)	Arm-Slot	Cam		4 MKZ	13-13	★				LDW						
	Cam/Bolt(K)	Arm-Slot	Cam		4D MKZ	14-16	★				LDW	◀					
	Cam/Bolt(K)	Arm-Slot	Cam		4D MKZ	17-20	★				LDW						
	Cam/Bolt(K)	Arm-Slot	Cam		4D Nautilus	19-23	★				LDW	◀				AFS	◀
Arm-Slot	Arm-Slot				T Navigator	98-02											
Cam(K)	Cam(K)	Cam(K)	Tie Rod		4D Navigator	03-06											
Cam(K)	Cam(K)	Arm-Slot	Cam		4D Navigator / Navigator L	07-17											
Cam(K)	Cam(K)	Arm-Slot	Cam		4D Navigator / Navigator L	18-19	★				LDW						
Cam(K)	Cam(K)	Arm-Slot	Cam		4D Navigator / Navigator L	20-23	★				LDW						
Cam	Cam				T Town Car	91-02											
Arm-Slot	Cam				T Town Car	03-11											
Ctrl-Arm	B-Joint(A)	Cam	Tie Rod		4D Zephyr	06-06											

Wheel Alignment Key			Description		
▲	Additional parts/procedure might be needed		▼	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator	
■	Aftermarket parts required		★	Vehicle requires safety system alignment or notes	
4	4-wheel alignment, equipped with standard factory adjustments		■	Reset Required - Standard feature Use CodeLink or OEM scan tool	
4D	4-wheel alignment, may require additional parts/procedures		■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool	
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment		■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)	
T	Thrust-line alignment (no rear adjustments)		■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)	
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures				
(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper
Notes			Safety System Key		
No Notes			◀ Requires CodeLink©2 WinAlign 15.x or newer and special tools or fixtures		

Wheel Alignment Adjustments							LOTUS			Safety System Alignment Resets																
Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes		Model	Years	★																	
Shim(O)	Shim(O)	Shim(O)	Tie Rod	lbs		4D Elise	05-11	★																		
Cam	Cam	Cam	Tie Rod	lbs		4 Evora / Evora 400	10-21	★																		
Shim(O)	Shim(O)	Shim(O)	Tie Rod	lbs		4D Exige	06-11	★																		
Wheel Alignment Adjustments							LUCID			Safety System Alignment Resets																
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes			Model	Years	★																	
Cam		Tie Rod				4 Air	22-23	★																		
Wheel Alignment Adjustments							MASERATI			Safety System Alignment Resets																
Front Caster	Front Camber	Rear Cam...	Rear Toe	lbs	Notes		Model	Years	★																	
Shim(O)	Shim(O)	Shim(O)	Tie Rod	lbs		4D Coupe/Spyder (incl. 4200)	02-06	★																		
Cam		Cam	Slot			4 Ghibli	14-23	★																		
Shim(O)	Shim(O)	Shim(O)	Tie Rod	lbs		4D GranSport	05-06	★		ACC LDW																
Cam/Shim (O)	Cam/Shim (O)	Cam	Tie Rod	lbs		4D GranTurismo/GranCabr io	08-20	★																		
		Cam	Tie Rod			4 GranTurismo/GranCabr io	24-24	★		ACC																
		Cam	Cam			4 Grecale	23-23	★		ACC																
Cam		Cam	Slot	8		4 Levante	17-23	★		ACC LDW																
Cam	Shim(O)	Shim(O)	Cam/Tie Rod			4D MC20	22-23																			
Cam/Shim (O)	Cam/Shim (O)	Cam	Tie Rod	lbs		4D Quattroporte	04-13	★																		
Cam		Cam	Slot			4 Quattroporte	14-23	★		ACC LDW																
Wheel Alignment Adjustments							MAZDA			Safety System Alignment Resets																
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes			Model	Years	★																	
Cam(K)						TD Mazda2	11-14																			
Strut(U)	Strut(U)	Arm(A)	Cam			4D Mazda3	04-09																			
		Arm(A)	Cam			4D Mazda3	10-18																			
						T Mazda3	19-23																			
		Arm(A)	Cam			4D Mazda5	06-17																			
B-Joint(A)	B-Joint(A)	Cam	Tie Rod			4D Mazda6	03-08																			
B-Joint(A)	B-Joint(A)	Arm(A)	Tie Rod			4D Mazda6	09-13																			
Wheel Alignment Key							Description																			
Additional parts/procedure might be needed							Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator																			
Aftermarket parts required							★ Vehicle requires safety system alignment or notes																			
4 4-wheel alignment, equipped with standard factory adjustments							Reset Required - Standard feature Use CodeLink or OEM scan tool																			
4D 4-wheel alignment, may require additional parts/procedures							Optional feature - Reset required if present Use CodeLink or OEM Scan Tool																			
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment							Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)																			
T Thrust-line alignment (no rear adjustments)							Reset required - Standard Feature, Use OEM scan tool (No CL support yet)																			
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures																										
(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part		ACC Adaptive Cruise Control																			
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper		LDW Lane Departure Warning																			
Notes							Safety System Key																			
8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.							No Additional Requirements																			
lbs Requires loading of vehicle before alignment																										

Wheel Alignment Adjustments					MAZDA			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		EPS	ACC	LDW	AEB	4WS	NVS	AFS	RCS	
			Cam		4 Mazda6	14-21											
Strut(U)	Strut(U)	Cam(K)	Cam		4D 626	93-02											
		Cam	Tie Rod		4 929	92-96											
	Cam(K)				TD CX-3	16-22											
		Arm(A)	Cam		4D CX-5	13-23											
Strut(U)	Strut(U)		Cam		4 CX-7	07-12											
Strut(U)	Strut(U)		Cam		4D CX-9	07-15											
			Cam		4 CX-9	16-23											
					T CX-30	20-23											
	Cam(K)				TD CX-50	23-23											
	Cam	Cam	Tie Rod		4 Millenia	95-02											
Strut(U)	Strut(U)				T MPV	89-98											
Strut(U)	Cam/Bolt(K)				TD MPV	00-06											
Strut(U)	Strut(U)		Tie Rod		4 MX-3	92-96											
Cam	Cam	Cam	Cam		4 MX-5 Miata	90-23											
Strut(U)	Strut(U)	Cam(K)	Cam		4D MX-6	93-97											
	Cam(K)				TD MX-30	22-23											
Bushing	Bushing				TD Pickup	94-97											
Cam	Cam				T Pickup	98-02											
Arm-Slot	Arm-Slot				T Pickup	03-10											
	Cam/Bolt(K)	Cam(K)	Cam		4D Protégé	95-98											
Strut(U)	Strut(U)		Cam		4 Protégé / Protégé 5	99-03											
Cam	Cam	Cam	Cam		4 RX-8	04-11											
Strut(U)	Strut(U)	Arm(A)	Cam		4D Tribute (incl. Hybrid)	01-07											
Strut(U)	Strut(U)	Arm(A)	Cam		4D Tribute (incl. Hybrid)	08-11	★		EPS								
Wheel Alignment Adjustments					MERCEDES-BENZ			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC ACC LDW AEB 4WS NVS AFS RCS									
			Cam	45	4 177 A Class	19-22	★										
	Strut(L)		Cam	45	4 117 CLA Class	14-19	★										
			Cam	45	4 118 CLA Class w/IRS (+U55)	20-23	★										
				45	T 118 CLA Class w/Beam Axle (+U54)	20-23	★										

Wheel Alignment Key		Description	
	Additional parts/procedure might be needed		Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
	Aftermarket parts required	★	Vehicle requires safety system alignment or notes
4	4-wheel alignment, equipped with standard factory adjustments		Reset Required - Standard feature Use CodeLink or OEM scan tool
4D	4-wheel alignment, may require additional parts/procedures		Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment		Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T	Thrust-line alignment (no rear adjustments)		Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures		

Wheel Alignment Adjustments					MERCEDES-BENZ		Safety System Alignment Resets							
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	  ESC ACC LDW AEB 4WS NVS AFS RCS						
	Strut(L)		Cam	45	4 156 GLA Class	15-20	★							
			Cam	45	4 247 GLA Class	21-23	★							
B-Joint	Strut(L)			45	T 245 B Class (CST)	06-12	★							
	Strut(L)		Cam	45	4 242, 246 B Class	13-19	★							
			Cam	45	4 247 GLB Class	20-23	★							
			Cam	45	4 243 EQB Class	22-23	★							
Bolt Kit	Bolt Kit	Bushing(A)	Cam	456	4D 202 C Class	94-00	★							
Bolt Kit	Bolt Kit	Bushing(A)	Cam	45	4D 203 C Class	01-07	★							
Bolt Kit	Bolt Kit	Bushing(A)	Cam	45	4D 204 C Class	08-15	★							
Bushing	Bushing	Bushing(A)	Cam	45	4D 205 C Class (exc/AMG)	15-23	★							
		Bushing(A)	Cam	45	4D 205 C Class AMG C 43, C63 Sedan/Wagon	16-23	★							
		Shim(O)	Cam	45	4D 205 C Class AMG C 63 Coupe/Cabriolet	17-23	★							
Bushing	Bushing		Cam	45	4D 206 C Class (exc/AMG)	22-23	★							
Bushing	Bushing	Shim(O)	Cam	45	4D 206 C Class AMG	23-23	★							
Bolt Kit	Bolt Kit	Bushing(A)	Cam	45	4D 204 GLK Class	10-15	★							
Bushing	Bushing		Cam	45	4D 253 GLC Class (exc/AMG)	16-23	★							
			Cam	45	4 253 GLC Class GLC 43 (M276.823)	17-23	★							
		Shim(O)	Cam	45	4D 253 GLC Class GLC 63 (M177.980)	18-23	★							
Bushing	Bushing		Cam	45	4D 254 GLC Class	23-23	★							
Bolt Kit	Bolt Kit	Bushing(A)	Cam	456	4D 208 CLK	98-03	★							
Bolt Kit	Bolt Kit	Bushing(A)	Cam	45	4D 209 CLK	03-09	★							
	Cam		Tie Rod	45	4 209 CLK63 AMG Black Series	08-08	★							
Bolt Kit	Bolt Kit	Bushing(A)	Cam	45	4D 210 E Class	96-03	★							
Bolt Kit	Bolt Kit	Bushing(A)	Cam	45	4D 211 E Class	03-09	★							
Bolt Kit	Bolt Kit	Bushing(A)	Cam	45	4D 212 E Class	10-16	★							
Bolt Kit	Bolt Kit	Bushing(A)	Cam	45	4D 207 E Class Coupe/Cabrio	10-17	★							
Bushing	Bushing	Bushing(A)	Cam	45	4D 213 E Class (exc/AMG)	17-23	★							
		Bushing(A)	Cam	45	4D 213 E Class E 43 (M276.823)	17-23	★							
		Shim(O)	Cam	45	4D 213 E Class E 63 (M177.980)	18-23	★							

Wheel Alignment Key		Description	
▲	Additional parts/procedure might be needed	▼	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
■	Aftermarket parts required	★	Vehicle requires safety system alignment or notes
4	4-wheel alignment, equipped with standard factory adjustments	■	Reset Required - Standard feature Use CodeLink or OEM scan tool
4D	4-wheel alignment, may require additional parts/procedures	■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment	■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T	Thrust-line alignment (no rear adjustments)	■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures		

(A) Aftermarket Part (K) Kit (O) OEM Part
 (B-J) Ball-Joint (L) Lower (U) Upper

Notes

- May require special OEM procedures/tools
- Special wheel adapters recommended by OEM.
- Requires Spreader Bar to measure and set front toe.

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					MERCEDES-BENZ		Safety System Alignment Resets	
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	
Bushing	Bushing	Bushing(A)	Cam	45	4D 238 E Class Coupe/Cabrio	18-23	★	ESC ACC LDW AEB 4WS NVS AFS RCS
Bushing	Bushing		Cam	458	4D 295 EQE	23-23	★	
Bushing	Bushing		Tie Rod	458	4D 295 EQE w/Rear Steering	23-23	★	
Bushing	Bushing		Cam	458	4D 294 EQE SUV	23-23	★	
Bushing	Bushing		Tie Rod	458	4D 294 EQE SUV w/Rear Steering	23-23	★	
Bolt Kit	Bolt Kit	Bushing(A)	Cam	45	4D 219 CLS Class	06-11	★	
Bolt Kit	Bolt Kit	Bushing(A)	Cam	45	4D 218 CLS Class	12-18	★	
Bushing	Bushing	Bushing(A)	Cam	45	4D 257 CLS Class	19-23	★	
Cam	Cam		Cam	456	4 140 S, CL Class	92-99	★	
Bolt Kit	Bolt Kit		Cam	458	4D 215 CL Class	00-06	★	
Bolt Kit	Bolt Kit		Cam	458	4D 220 S Class	00-06	★	
Bolt Kit	Bolt Kit		Cam	458	4D 216 CL Class	07-14	★	
Bolt Kit	Bolt Kit		Cam	458	4D 221 S Class	07-13	★	
Bushing	Bushing		Cam	458	4D 222 S Class Sedan	14-20	★	
Bushing	Bushing		Cam	458	4D 217 S Coupe/Cabriolet	15-21	★	
Bushing	Bushing		Cam	458	4D 223 S Class -Z07	21-23	★	
Bushing	Bushing		Tie Rod	458	4D 223 S Class -Z07 w/Rear Steering	21-23	★	
			Cam	458	4 223 S Class +Z07	21-23	★	
			Tie Rod	458	4 223 S Class +Z07 w/Rear Steering	21-23	★	
Bolt Kit	Bolt Kit		Cam	4568	4D 240 Maybach 57 / 62	03-12	★	
Bushing	Bushing		Tie Rod	458	4D 297 EQS	22-23	★	
Bushing	Bushing		Tie Rod	458	4D 296 EQS SUV	23-23	★	
Cam	Cam	Bushing(A)	Cam	456	4D 129 SL Class	90-02	★	
Bolt Kit	Bolt Kit		Cam	458	4D 230 SL Class	03-12	★	
Bolt Kit	Bolt Kit		Cam	458	4D 231 SL Class	13-20	★	
Shim(O)	Shim(O)	Shim(O)	Cam	458	4D 232 SL Class	22-23	★	
Bolt Kit	Bolt Kit	Bushing(A)	Cam	456	4D 170 SLK Roadster	98-04	★	
Bolt Kit	Bolt Kit	Bushing(A)	Cam	45	4D 171 SLK Roadster	05-11	★	
Bolt Kit	Bolt Kit		Cam	45	4D 172 SLK/SLC Roadster	12-20	★	
	Bushing	Bushing		45	4D 199 SLR McLaren	05-09	★	
Shim(O)	Shim(O)	Shim(O)	Cam	45	4D 197 SLS AMG	11-15	★	

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

- May require special OEM procedures/tools
- Special wheel adapters recommended by OEM.
- Requires Spreader Bar to measure and set front toe.
- Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments						MERCEDES-BENZ		Safety System Alignment Resets					
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	  ESC ACC LDW AEB 4WS NVS AFS RCS					
Shim(O)	Shim(O)	Shim(O)	Cam	45	4D 190 AMG GT / GT S / GT R / GT C	16-21	★						
		Shim(O)	Cam	45	4D 290 AMG GT4	19-23	★						
Arm-Slot	Arm-Slot	Arm-Slot	Cam	45	4 163 M Class	98-05	★						
Slot/Bolt Kit	Slot/Bolt Kit	Cam	Cam	45	4D 164 M Class	06-11	★						
Slot/Bolt Kit	Slot/Bolt Kit	Cam	Cam	45	4D 164 GL Class	06-12	★						
Bolt Kit	Bolt Kit	Cam	Cam	45	4D 166 M/GLE Class	12-19	★						
Bolt Kit	Bolt Kit	Cam	Cam	45	4D 166 GL/GLS Class	13-19	★						
Bolt Kit	Bolt Kit	Cam	Cam	45	4D 292 GLE Coupe Class	16-19	★						
Bolt Kit	Bolt Kit	Cam	Cam	45	4D 167 GLE/GLS Class	20-23	★						
	Cam		Cam	45	4 447 Metris	16-23	★						
				456	T 460/461/463 G Class	79-18	★						
Shim(O)	Shim(O)			45	TD 463 G Class	19-23	★						
Arm-Slot	Arm-Slot	Cam	Cam	45	4 251 R Class (GST)	06-13	★						
	Strut(L)			45	T 906 Sprinter	10-18	★						
	Strut(L)			45	TD 907 Sprinter	19-23	★						
Wheel Alignment Adjustments						MERCURY		Safety System Alignment Resets					
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	  ESC EPS ACC LDW AEB 4WS NVS AFS RCS					
Strut Rod	Cam	Cam	Cam		4 Cougar	89-97							
Strut(U)	Strut(U)		Cam		4D Cougar	99-02							
Cam	Cam				T Grand Marquis	92-02							
Arm-Slot	Cam				T Grand Marquis	03-11							
Arm-Slot	Cam				T Marauder	03-04							
Strut(U)	Strut(U)		Cam		4 Mariner (incl. Hybrid)	05-07							
Strut(U)	Strut(U)		Cam		4 Mariner (incl. Hybrid)	08-11	★	EPS					
Ctrl-Arm	B-Joint(A)	Cam	Tie Rod		4D Milan	06-11							
	Strut(U)	Cam(K)	Cam		4D Montego	05-07							
Strut(U)	Strut(U)				TD Monterey	04-07							
Cam	Cam				T Mountaineer	97-01							
Arm-Slot	Arm-Slot	Arm-Slot	Tie Rod		4 Mountaineer	02-05							
Arm-Slot	Arm-Slot	Arm-Slot	Cam		4 Mountaineer	06-10							
Strut(U)	Strut(U)		Cam		4D Mystique	95-00							
Strut(U)	Strut(U)	Bushing	Cam		4D Sable Sedan	86-05							
Strut(U)	Strut(U)	Cam(K)	Cam		4D Sable Wagon	86-05							
	Strut(U)	Cam(K)	Cam		4D Sable	08-09							

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

EPS Electronic Power Steering

Notes

- May require special OEM procedures/tools
- Special wheel adapters recommended by OEM.
- Requires Spreader Bar to measure and set front toe.

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					MERCURY		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB
Strut(U)	Strut(U)	Cam(K)	Tie Rod		4D Tracer	91-96					
Strut(U)	Strut(U)		Cam		4 Tracer	97-99					
	Cam(K)	Shim(A)	Shim(A)		4S Villager	93-02					
Wheel Alignment Adjustments					MINI		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes	Model	Years	★	ESC	EPS	ACC
Strut(AU)	Strut(AU)	Arm(A)	Arm-Slot	lbs 5		4D R50/R52/R53 Cooper (-11/2004)	02-05	★	ESC		
Strut(AU)	Strut(AU)	Cam	Arm-Slot	lbs 5		4D R50/R52/R53 Cooper (12/2004-)	05-08	★	ESC		
Strut(AU)	Strut(U)	Cam	Arm-Slot	lbs 5		4D R55 Clubman	08-14	★	ESC		
	Knuckle	Cam	Arm-Slot	lbs 5		4D F54 Clubman	16-24	★		EPS	
Strut(AU)	Strut(U)	Cam	Arm-Slot	lbs 5		4D R56 Cooper Hardtop	07-08	★	ESC		
Strut(AU)	Strut(U)	Cam	Arm-Slot	lbs 5		4D R56 Cooper Hardtop	09-13	★	ESC		
	Knuckle	Cam	Arm-Slot	lbs 5		4D F56/F55 Cooper Hardtop	14-21	★		EPS	
	Knuckle	Cam	Arm-Slot	lbs 5		4D F56 Cooper Hardtop SE (BEV)	20-21	★		EPS	
	Knuckle	Cam	Arm-Slot	lbs 5		4D F56 Cooper Hardtop JCW GP	21-21	★		EPS	
	Knuckle	Cam	Arm-Slot	lbs 5		4D F56/F55 Cooper Hardtop (incl. SE)	22-24	★		EPS	
Strut(AU)	Strut(U)	Cam	Arm-Slot	lbs 5		4D R57 Cooper Convertible	09-15	★	ESC		
	Knuckle	Cam	Arm-Slot	lbs 5		4D F57 Cooper Convertible	16-21	★		EPS	
	Knuckle	Cam	Arm-Slot	lbs 5		4D F57 Cooper Convertible	22-24	★		EPS	
Strut(AU)	Strut(U)	Cam	Arm-Slot	lbs 5		4D R58/R59 Coupe/Roadster	12-15	★	ESC		
Strut(AU)	Strut(U)	Cam	Arm-Slot	lbs 5		4D R60 Countryman	11-16	★	ESC		
	Knuckle	Cam	Arm-Slot	lbs 5		4D F60 Countryman	17-24	★		EPS	
	Strut(U)	Cam	Arm-Slot	lbs 5		4 R61 Paceman	13-16	★	ESC		

Wheel Alignment Key

▲	Additional parts/procedure might be needed
■	Aftermarket parts required
4	4-wheel alignment, equipped with standard factory adjustments
4D	4-wheel alignment, may require additional parts/procedures
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T	Thrust-line alignment (no rear adjustments)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

▼	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
■	Reset Required - Standard feature Use CodeLink or OEM scan tool
■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper

Notes

5	Special wheel adapters recommended by OEM.
lbs	Requires loading of vehicle before alignment

EPS	Electronic Power Steering (Mini) Dynamic Stability Control
ESC	Electronic Stability Control

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					MITSUBISHI			Safety System Alignment Resets							
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	 ESC	 ACC	 LDW	 AEB	 4WS	 NVS	 AFS	 RCS
	Strut(L)	Cam	Cam		4 3000GT	91-99									
	Cam(K)	Cam	Cam		4D Diamante 2WS	92-96									
	Cam(K)	Cam	Tie Rod		4D Diamante 4WS	92-93									
	Cam(K)				TD Diamante Wagon	93-95									
	Cam(K)		Cam		4D Diamante	97-04									
B-Joint(A)	Cam(K)		Cam		4D Eclipse	95-99									
	Cam/Bolt(K)	Cam	Cam		4D Eclipse	00-07									
	Cam/Bolt(K)	Cam	Cam		4D Eclipse	08-09	★	ESC							
	Cam/Bolt(K)	Cam	Cam		4D Eclipse	10-12	★	ESC							
	Cam/Bolt(K)		Cam		4D Eclipse Cross	18-20	★	ESC							
	Cam/Bolt(K)		Cam		4D Eclipse Cross	22-23	★	ESC							
	Cam/Bolt(K)	Cam	Cam		4D Endeavor 4X2	04-11	★	ESC							
	Cam/Bolt(K)	Cam	Cam		4D Endeavor 4X4	04-06	★	ESC							
	Cam/Bolt(K)	Cam	Cam		4D Endeavor 4X4	07-11	★	ESC							
B-Joint(A)	Cam(K)		Cam		4D Galant	94-98									
	Strut(L)		Cam		4 Galant	99-03									
	Cam/Bolt(K)	Cam	Cam		4D Galant	04-09									
	Cam/Bolt(K)	Cam	Cam		4D Galant	10-12	★	ESC							
	Cam/Bolt(K)				TD i-MiEV	12-17	★	ESC							
	Cam/Bolt(K)	Cam	Cam		4D Lancer	02-07									
	Strut(L)	Cam	Cam		4 Lancer Evolution	03-06									
	Cam/Bolt(K)	Arm(A)	Cam		4D Lancer	08-09									
	Cam/Bolt(K)	Arm(A)	Cam		4D Lancer	10-17	★	ESC							
	Cam/Bolt(K)	Cam	Cam		4D Lancer Evolution	08-15	★	ESC							
	Cam(K)	Cam	Cam		4D Mirage	93-02									
					T Mirage	14-15	★	ESC							
					T Mirage	17-23	★	ESC							
	Shim(O)				TD Montero	92-00									
Cam	Cam	Cam	Cam		4 Montero	01-06									
Shim(O)	Shim(O)				TD Montero Sport	97-04									
	Cam/Bolt(K)	Arm(A)	Cam		4D Outlander	03-06									
	Cam/Bolt(K)	Arm(A)	Cam		4D Outlander	07-20	★	ESC							
		Cam	Cam		4 Outlander	22-23	★	ESC							
	Cam/Bolt(K)	Arm(A)	Cam		4D Outlander PHEV	18-22	★	ESC							
		Cam	Cam		4 Outlander PHEV	23-23	★	ESC							
	Cam/Bolt(K)	Arm(A)	Cam		4D Outlander Sport / RVR	11-23	★	ESC							
Shim(O)	Shim(O)				TD Pickup	87-96									
Cam	Cam				T Raider Pickup	06-09									

Wheel Alignment Key	Description
Additional parts/procedure might be needed	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
Aftermarket parts required	★ Vehicle requires safety system alignment or notes
4 4-wheel alignment, equipped with standard factory adjustments	Reset Required - Standard feature Use CodeLink or OEM scan tool
4D 4-wheel alignment, may require additional parts/procedures	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T Thrust-line alignment (no rear adjustments)	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A) Aftermarket Part (K) Kit (O) OEM Part
(B-J) Ball-Joint (L) Lower (U) Upper

Notes
No Notes

Safety System Key
No Additional Requirements

ESC Electronic Stability Control (Mitsubishi) Active Traction and Skid Control (M-ATSC)

Wheel Alignment Adjustments					NISSAN			Safety System Alignment Resets								
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	 ESC	 ACC	 LDW	 AEB	 4WS	 NVS	AFS	RCS	
	Cam(K)				TD 200SX	95-98										
Strut Rod(A)	Cam(K)	Cam	Cam		4D 240SX	89-98										
Strut Rod(A)	Cam(K)	Cam	Tie Rod		4D 240SX w/HICAS System	89-98										
		Cam	Cam		4 300ZX	90-96										
		Cam	Tie Rod		4 300ZX w/HICAS System	90-96										
Arm(A)	Arm(A)	Cam	Cam		4D 350Z	03-09	★	ESC								
Arm(A)	Arm(A)	Cam	Cam		4D 370Z	09-20	★	ESC								
	Cam(K)	Cam(K)	Tie Rod		4D Altima	93-01										
	Cam(K)	Cam	Cam		4D Altima	02-06										
	Cam(K)	Cam	Cam		4D Altima	07-09	★	ESC								
	Cam(K)	Cam	Cam		4D Altima	10-18	★	ESC								
		Cam	Cam		4 Altima	19-23	★	ESC								
	Cam(K)	Cam	Cam		4D Altima Hybrid	07-11	★	ESC								
		Cam	Cam		4 Ariya	23-23	★	ESC								
Cam	Cam	Cam	Cam		4 Armada/Pathfinder Armada -6/2/2005	04-05	★	ESC								
Cam	Cam	Cam	Cam		4D Armada 6/3/2005-	05-23	★	ESC								
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Cube	09-14	★	ESC								
Cam	Cam				T Frontier	98-02										
Cam	Cam				T Frontier	03-11	★	ESC								
Cam	Cam				T Frontier	12-21	★	ESC								
Cam	Cam				T Frontier	22-23	★	ESC								
Shim(O)	Cam	Cam	Cam		4D GT-R	09-12	★	ESC								
Shim(O)	Cam	Cam	Cam		4D GT-R	13-23	★	ESC								
	Cam/Bolt(K)				TD JUKE 4X2	11-17	★	ESC								
	Cam/Bolt(K)	Cam	Cam		4D JUKE 4X4	11-17	★	ESC								
					T Kicks	18-23	★	ESC								
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S LEAF	11-17	★	ESC								
	Cam/Bolt(K)				TD LEAF	18-23	★	ESC								
	Cam(K)				TD Maxima	95-03										
	Cam(K)	Cam	Cam		4D Maxima	04-08	★	ESC								
	Cam(K)	Cam	Cam		4D Maxima	09-23	★	ESC								
					T Micra	15-19	★	ESC								
	Cam(K)	Cam	Cam		4D Murano	03-07	★	ESC								

Wheel Alignment Key		Description	
▲	Additional parts/procedure might be needed	▼	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
■	Aftermarket parts required	★	Vehicle requires safety system alignment or notes
4	4-wheel alignment, equipped with standard factory adjustments		Reset Required - Standard feature Use CodeLink or OEM scan tool
4D	4-wheel alignment, may require additional parts/procedures		Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment		Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T	Thrust-line alignment (no rear adjustments)		Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures		

(A) Aftermarket Part (K) Kit (O) OEM Part
(B-J) Ball-Joint (L) Lower (U) Upper

Notes

No Notes

ESC Electronic Stability Control (Nissan) Vehicle Dynamic Control

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					NISSAN			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ACC	LDW	AEB	4WS	NVS	AFS	RCS		
	Cam(K)	Cam	Cam		4D Murano (incl. CrossCabriolet)	09-23	★	ESC									
	Cam(K)	Cam	Cam		4D Murano Hybrid	16-16	★	ESC									
Cam(K)	Cam(K)				TD NV200	13-19	★	ESC									
Cam(K)	Cam(K)				TD NV200	20-21	★	ESC									
Cam	Cam				TD NV1500/NV2500	12-21	★	ESC									
Cam	Cam				TD NV3500	12-21	★	ESC									
	Cam(K)				TD Pathfinder	96-02											
	Cam(K)				TD Pathfinder	03-04	★	ESC									
Cam	Cam	Cam	Cam		4 Pathfinder	05-12	★	ESC									
	Cam(K)	Cam	Cam		4D Pathfinder (incl. Hybrid)	13-20	★	ESC									
	Cam(K)	Cam	Cam		4D Pathfinder	22-23	★	ESC									
Shim(O)	Shim(O)				TD Pickup	78-97											
		Cam	Cam		4 Qashqai	17-23	★	ESC									
	Cam(K)	Shim(A)	Shim(A)		4S Quest	93-02											
	Cam/Bolt(K)	Cam	Cam		4D Quest	04-04											
	Cam/Bolt(K)	Cam	Cam		4D Quest	05-09	★	ESC									
	Cam/Bolt(K)	Cam	Cam		4D Quest	11-17	★	ESC									
	Cam/Bolt(K)	Cam	Cam		4D Rogue	08-13	★	ESC									
		Cam	Cam		4 Rogue (incl. Hybrid)	14-23	★	ESC									
	Cam/Bolt(K)	Cam	Cam		4D Rogue Select	14-15	★	ESC									
		Cam	Cam		4 Rogue Sport	17-22	★	ESC									
	Cam(K)	Shim(A)	Shim(A)		4S Sentra	95-09											
	Cam(K)	Shim(A)	Shim(A)		4S Sentra	10-10	★	ESC									
	Cam(K)	Shim(A)	Shim(A)		4S Sentra	11-19	★	ESC									
		Cam	Cam		4 Sentra	20-23	★	ESC									
Cam	Cam				T Titan -6/2/2005	04-05	★	ESC									
Cam	Cam				TD Titan 6/3/2005-	05-09	★	ESC									
Cam	Cam				TD Titan	10-15	★	ESC									
Cam	Cam				T Titan	17-23	★	ESC									
Cam	Cam				T Titan XD	16-23	★	ESC									
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Versa	07-09											
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Versa	10-11	★	ESC									
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Versa (incl. Note)	12-19	★	ESC									
	Cam/Bolt(K)				TD Versa	20-23	★	ESC									
			Cam		4 X-Trail	05-06											

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

ESC Electronic Stability Control (Nissan) Vehicle Dynamic Control

Notes

No Notes

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					NISSAN			Safety System Alignment Resets											
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB	4WS	NVS	AFS	RCS				
Cam	Cam				T Xterra	06-15	★	ESC											
Cam	Cam				T Xterra 4X2	00-04													
Cam	Cam				T Xterra 4X2	05-05	★	ESC											
Cam	Cam				T Xterra 4X4	00-02													
Cam	Cam				T Xterra 4X4	03-05	★	ESC											
Wheel Alignment Adjustments					OLDSMOBILE			Safety System Alignment Resets											
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years		ESC	ACC	LDW	AEB	4WS	NVS	AFS	RCS				
	Cam(K)	Shim(A)	Shim(A)		4S Achieva	92-98													
	Strut(L)	Cam/Bolt(K)	Cam		4D Alero	99-04													
Strut(U)	Strut(L)		Cam		4 Aurora	95-99													
Strut(U)	Strut(L)	Shim(A)	Cam		4D Aurora	01-03													
Cam	Cam				T Bravada	91-00													
Arm-Slot	Arm-Slot				T Bravada	02-04													
	Strut(L)	Shim(A)	Shim(A)		4S Ciera	82-96													
	Strut(L)	Cam/Bolt(K)	Cam		4D Cutlass (FWD)	97-99													
	Strut(L)	Shim(A)	Shim(A)		4S Cutlass Cruiser	84-96													
	Strut(U)	Cam(K)	Arm-Slot		4D Cutlass Supreme (FWD)	90-97													
Strut(U)	Strut(L)	Strut(L)	Tie Rod		4D 88 Royale / Delta 88 (FWD)	86-99													
	Cam(K)	Cam(K)	Tie Rod		4D Intrigue	98-02													
Strut(U)	Strut(L)	Strut(L)	Tie Rod		4D Ninety-Eight / Regency (FWD)	85-98													
	Strut(L)	Shim(A)	Shim(A)		4S Silhouette	90-96													
	Cam(K)	Shim(A)	Shim(A)		4S Silhouette (Rear Beam Axle)	97-04													
	Cam(K)	Cam	Tie Rod		4D Silhouette (IRS)	02-04													
Wheel Alignment Adjustments					PLYMOUTH			Safety System Alignment Resets											
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB	4WS	NVS	AFS	RCS				
Strut(U)	Strut(U)	Tie Rod	Tie Rod		4 Breeze	96-00													
	Cam(K)	Cam	Cam		4D Colt	93-96													
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D Neon	94-01													
Cam	Cam	Tie Rod	Tie Rod		4 Prowler	97-01													
	Cam(K)	Shim(A)	Shim(A)		4S Voyager 4X2	96-00													
	Cam(K)				TD Voyager 4X4	97-00													

Wheel Alignment Key					Description						
Additional parts/procedure might be needed					Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator						
Aftermarket parts required					Vehicle requires safety system alignment or notes						
4 4-wheel alignment, equipped with standard factory adjustments					Reset Required - Standard feature Use CodeLink or OEM scan tool						
4D 4-wheel alignment, may require additional parts/procedures					Optional feature - Reset required if present Use CodeLink or OEM Scan Tool						
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment					Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)						
T Thrust-line alignment (no rear adjustments)					Reset required - Standard Feature, Use OEM scan tool (No CL support yet)						
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures											

(A) Aftermarket Part	(K) Kit	(O) OEM Part	(Oldsmobile) Stabilitrak / Precision Control System (PCS)	(Nissan) Vehicle Dynamic Control
(B-J) Ball-Joint	(L) Lower	(U) Upper	ESC Electronic Stability Control	

Notes					Safety System Key						
No Notes					No Additional Requirements						

Wheel Alignment Adjustments					POLESTAR			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model		Years	★										
			Cam		4	1	20-21	★	ESC EPS		ACC LDW AEB 4WS NVS AFS RCS							
			Cam	4	4	2	21-23	★	EPS									
Wheel Alignment Adjustments					PONTIAC			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model		Years	★										
	Cam(K)	Shim(A)	Shim(A)		4S	Aztek 4X2	01-05		ESC		EPS ACC LDW AEB 4WS NVS AFS RCS							
	Cam(K)	Cam	Tie Rod		4D	Aztek 4X4	01-05											
Strut(U)	Strut(L)	Strut(L)	Tie Rod		4D	Bonneville	87-99											
Strut(U)	Strut(L)	Shim(A)	Cam		4D	Bonneville	00-05											
Arm-Slot	Arm-Slot				TD	Firebird	93-02											
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S	G3 w/o ABS	09-10											
	Cam/Bolt(K)				TD	G3 w/ABS	09-10											
	Cam(K)	Shim(A)	Shim(A)		4S	G5 / G5 Pursuit	05-10											
	Cam(K)				TD	G5 / G5 Pursuit GT (FE3/FE5 Susp)	05-07											
	Cam(K)				TD	G5 / G5 Pursuit GT (FE3/FE5 Susp)	08-10	★	ESC									
	Strut(L)	Cam	Cam		4	G6 w/Electric Power Steering (EPS)	05-10	★			EPS							
	Strut(L)	Cam	Cam		4	G6 w/Hydraulic Power Steering	06-10											
Bolt Kit	Strut(L)	Cam	Cam		4D	G8	08-09	★	ESC									
Strut Rod	Cam/Bolt(K)		Tie Rod		4D	GTO	04-06											
	Cam(K)	Shim(A)	Shim(A)		4S	Grand Am	85-98											
	Strut(L)	Cam/Bolt (K)	Cam		4D	Grand Am	99-05											
	Strut(U)	Cam(K)	Arm-Slot		4D	Grand Prix	90-96											
	Cam(K)	Cam(K)	Tie Rod		4D	Grand Prix	97-08											
	Cam(K)	Shim(A)	Shim(A)		4S	Montana incl. SV6 (Rear Beam Axle)	98-09											
	Cam(K)	Cam	Tie Rod		4D	Montana incl. SV6 (IRS)	02-06											
Cam	Cam	Cam	Tie Rod	4	4	Solstice	06-10	★										
	Cam(K)	Shim(A)	Shim(A)		4S	Sunfire	95-05											
	Cam(K)	Cam	Cam(K)		4D	Torrent	06-09											
Arm-Slot	Arm-Slot				TD	Trans Am	93-02											
	Strut(L)	Shim(A)	Shim(A)		4S	Trans Sport	90-96											

Wheel Alignment Key		Description	
Additional parts/procedure might be needed		Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator	
Aftermarket parts required		Vehicle requires safety system alignment or notes	★
4 4-wheel alignment, equipped with standard factory adjustments		Reset Required - Standard feature Use CodeLink or OEM scan tool	
4D 4-wheel alignment, may require additional parts/procedures		Optional feature - Reset required if present Use CodeLink or OEM Scan Tool	
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment		Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)	
T Thrust-line alignment (no rear adjustments)		Reset required - Standard Feature, Use OEM scan tool (No CL support yet)	
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures			

(A) Aftermarket Part (K) Kit (O) OEM Part
(B-J) Ball-Joint (L) Lower (U) Upper

Notes

4 May require special OEM procedures/tools

EPS Electronic Power Steering (Pontiac) Stabilitrak
ESC Electronic Stability Control

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					PONTIAC			Safety System Alignment Resets								
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	ACC	LDW	AEB	4WS	NVS	AFS	RCS
	Cam(K)	Shim(A)	Shim(A)		4S Trans Sport	97-98										
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Vibe 4X2	03-04										
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Vibe 4X2	05-08	★		ESC							
	Cam/Bolt(K)	Cam	Cam		4D Vibe 4X4	03-04										
	Cam/Bolt(K)	Cam	Cam		4D Vibe 4X4	05-06	★		ESC							
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Vibe 4X2 (exc/GT) Torsion Beam Axle	09-10	★		ESC							
	Cam/Bolt(K)	Cam	Cam		4D Vibe 4X2 GT/4X4	09-10	★		ESC							
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Wave w/o ABS	04-10										
	Cam/Bolt(K)				TD Wave w/ABS	04-10										
Wheel Alignment Adjustments					PORSCHE			Safety System Alignment Resets								
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	ACC	LDW	AEB	4WS	NVS	AFS	RCS
Cam	Strut(L)	Cam	Cam	4	4 911 Carrera (964/993)	89-98	★									
Cam(K)	Strut(U)	Cam	Cam		4D 911 Carrera (996)	99-05	★		ESC							
	Strut(U)	Cam	Cam		4 911 Carrera (997)	05-13	★		ESC							
	Shim(O)	Cam	Cam		4D 911 Carrera (997) GT2/GT3	05-11	★		ESC							
	Strut(U)	Cam	Cam		4 911 Carrera (991)	12-16	★		ESC	ACC	LDW					
	Shim/Strut(U)	Shim/Cam	Cam	5	4D 911 Carrera (991) GT3/GT3 RS	14-16	★		ESC	ACC	LDW		4WS			
	Strut(U)	Cam	Cam	5	4D 911 Carrera (991) Turbo	14-16	★		ESC	ACC	LDW		4WS			
	Strut(U)	Cam	Cam		4 911 Carrera (991 II)	17-19	★		ESC	ACC	LDW					
	Strut(U)	Cam	Cam		4D 911 Carrera (991 II) w/Rear Axle Steering	17-19	★		ESC	ACC	LDW		4WS			
	Shim/Strut(U)	Shim/Cam	Cam	5	4D 911 Carrera (991 II) GT3/GT3 RS/Speedster	18-19	★		ESC	ACC	LDW		4WS			
	Strut(U)	Cam	Cam	5	4D 911 Carrera (991 II) Turbo	17-19	★		ESC	ACC	LDW		4WS			
	Shim/Strut(U)	Shim/Cam	Cam	5	4D 911 Carrera (991 II) Turbo GT2 RS	18-18	★		ESC	ACC	LDW		4WS			
	Strut(U)	Cam	Cam		4 911 Carrera (992)	20-23	★		ESC	ACC	LDW			NVS		
	Strut(U)	Cam	Cam		4D 911 Carrera (992) w/Rear Axle Steering	20-23	★		ESC	ACC	LDW		4WS	NVS		
	Cam	Cam	Cam		4D 911 Carrera (992) GT3/GT3 RS	22-23	★		ESC	ACC	LDW		4WS	NVS		
	Shim(O)	Shim(O)	Cam	5	4D 918 Spyder (918)	15-15	★		ESC				4WS			
Cam(K)	Strut(U)	Cam	Cam		4D Boxster (986)	97-04	★		ESC							

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

- 4 May require special OEM procedures/tools
5 Special wheel adapters recommended by OEM.

ACC Adaptive Cruise Control	NVS Night Vision System
ESC Electronic Stability Control	4WS Four-Wheel Steering
LDW Lane Departure Warning	(Porsche) Porsche Stability Management

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					PORSCH			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	ACC	LDW		AEB 4WS	NVS	AFS	RCS	
	Strut(U)	Cam	Cam		4 Boxster (987)	05-12	★	ESC									
	Strut(U)	Cam	Cam		4D Boxster (981)	13-16	★	ESC	ACC	LDW							
	Strut(U)	Cam	Cam		4D Boxster 718 (982)	17-23	★	ESC	ACC	LDW							
	Shim(O)	Shim(O)	Tie Rod	45	4D Carrera GT	04-05	★	ESC									
Cam	Cam	Cam	Cam		4 Cayenne	03-10	★	ESC									
Cam	Cam	Cam	Cam		4 Cayenne	11-18	★	ESC	ACC	LDW							
Cam	Cam	Cam	Cam	8	4 Cayenne w/Air Susp	11-18	★	ESC	ACC	LDW							
	Subframe	Cam	Cam		4D Cayenne	19-23	★	ESC	ACC	LDW			4WS	NVS			
	Subframe	Cam	Cam	8	4D Cayenne w/Air Susp	19-23	★	ESC	ACC	LDW			4WS	NVS			
	Strut(U)	Cam	Cam		4 Cayman (987 C7S)	06-12	★	ESC									
	Strut(U)	Cam	Cam		4D Cayman (981)	14-16	★	ESC	ACC	LDW							
	Shim(O)	Shim/Cam	Cam		4D Cayman (981) GT4	16-16	★	ESC	ACC	LDW							
	Strut(U)	Cam	Cam		4D Cayman 718 (982)	17-23	★	ESC	ACC	LDW							
Arm(A)	Subframe	Cam	Cam		4D Macan (95B)	15-23	★	ESC	ACC	LDW							
Cam	Cam	Cam	Cam		4 Panamera (970)	10-16	★	ESC	ACC	LDW							
	Subframe	Cam	Cam		4D Panamera (971)	17-23	★	ESC	ACC	LDW			4WS	NVS			
	Subframe	Cam	Cam	8	4D Panamera (971) w/Air Susp	17-23	★	ESC	ACC	LDW			4WS	NVS			
	Subframe	Cam	Cam		4D Taycan (Y1A)	20-23	★	ESC	ACC	LDW				NVS			
	Subframe	Cam	Cam	8	4D Taycan (Y1A) w/Air Susp	20-23	★	ESC	ACC	LDW				NVS			
Wheel Alignment Adjustments					RIVIAN			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	EPS	ACC	LDW		AEB 4WS	NVS	AFS	RCS
Cam	Cam				T EDV 500 / 700 / 900	22-23	★		EPS								
Cam	Cam	Cam	Cam		4 R1T	22-23	★		EPS								
Cam	Cam	Cam	Cam		4 R1S	22-23	★		EPS								

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

- May require special OEM procedures/tools
- Special wheel adapters recommended by OEM.
- Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.

ACC	Adaptive Cruise Control	NVS	Night Vision System
EPS	Electronic Power Steering	EPS	Electronic Power Steering
ESC	Electronic Stability Control	4WS	Four-Wheel Steering
LDW	Lane Departure Warning	(Porsche)	Porsche Stability Management

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments						ROLLS-ROYCE			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes	Model	Years	★		ESC	EPS	ACC		LDW	AEB	4WS	NVS	AFS	RCS
	Ctrl-Arm	Cam	Cam	lbs 5		4D Cullinan (RR31)	19-23	★				EPS	ACC						
	Ctrl-Arm	Cam	Cam	lbs 5		4D Dawn (RR6)	16-21	★		ESC									
	Ctrl-Arm	Cam	Cam	lbs 5		4D Ghost (RR4)	10-20	★		ESC									
	Ctrl-Arm	Cam	Cam	lbs 5		4D Ghost (RR21/RR22)	21-23	★				EPS	ACC						
	Cam	Cam	Cam	lbs 5		4D Phantom/Drophead Coupe (RR1/RR2/RR3)	04-17	★		ESC									
	Ctrl-Arm	Cam	Cam	lbs 5		4D Phantom (RR11/RR12)	18-23	★				EPS	ACC						
	Ctrl-Arm	Cam	Cam	lbs 5		4D Wraith (RR5)	14-21	★		ESC									
Wheel Alignment Adjustments						SAAB			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe		Notes	Model	Years	★		ESC	ACC	LDW	AEB	4WS	NVS	AFS	RCS		
Strut(AU)	Cam	Arm(A)	Cam			4D 9-2X	05-06												
						T 9-3	99-02												
	Cam/Bolt(K)	Cam	Cam			4D 9-3 Sedan	03-03	★		ESC									
		Cam(K)	Cam(K)			4D 9-3 Convertible	03-03												
	Cam/Bolt(K)	Cam	Cam			4D 9-3	04-11	★		ESC									
		Cam	Cam			4 9-4x	11-11												
	Cam/Bolt(K)	Shim(O)	Arm-Slot			4D 9-5	99-09												
	Cam/Bolt(K)	Cam	Cam			4D 9-5	11-11												
	Cam	Cam	Cam			4 9-5 with GNB Susp (HiPer Strut)	10-11												
Arm-Slot	Arm-Slot					T 9-7X	05-09												
						T 900	94-98												
	Cam(K)					TD 9000	86-98												
Wheel Alignment Adjustments						SATURN			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe		Notes	Model	Years	★		ESC	EPS	ACC		LDW	AEB	4WS	NVS	AFS	RCS
	Strut(L)	Shim(A)	Shim(A)			4S ASTRA	08-09												
	Strut(L)	Cam	Cam			4 AURA 4 cyl. / Green Line (Hybrid)	07-09	★				EPS							
	Strut(L)	Cam	Cam			4 AURA V6	07-09												
	Cam(K)	Shim(A)	Shim(A)			4S ION	03-07												
	Strut(L)	Arm(A)	Arm-Slot			4D L Series (LS / LW / L)	00-05												
	Strut(L)	Cam	Cam			4D OUTLOOK	07-10	★		ESC									
	Cam(K)	Shim(A)	Shim(A)			4S RELAY (Rear Beam Axle)	05-07												

Wheel Alignment Key					Description		
▲	Additional parts/procedure might be needed				▼	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator	
■	Aftermarket parts required				★	Vehicle requires safety system alignment or notes	
4	4-wheel alignment, equipped with standard factory adjustments				■	Reset Required - Standard feature Use CodeLink or OEM scan tool	
4D	4-wheel alignment, may require additional parts/procedures				■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool	
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment				■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)	
T	Thrust-line alignment (no rear adjustments)				■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)	
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures						

(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper

Notes

- 5 Special wheel adapters recommended by OEM.
- lbs Requires loading of vehicle before alignment

ACC	Adaptive Cruise Control	(Saturn) Stabilitrak
EPS	Electronic Power Steering	(SAAB) Stabilitrak
ESC	Electronic Stability Control	

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					SATURN		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB
	Cam(K)	Cam	Tie Rod		4D RELAY (IRS)	05-06					
Strut(U)	Strut(L)	Strut(L)	Arm-Slot		4D S Series (SL / SC / SW)	91-02					
Cam	Cam	Cam	Tie Rod	4	4 SKY	07-10	★				
	Cam(K)	Cam	Cam(K)		4D VUE	02-08					
	Cam(K)	Cam	Cam(K)		4D VUE	09-10	★	ESC			
	Cam(K)	Cam	Cam(K)		4D VUE Hybrid	07-08					
	Cam(K)	Cam	Cam(K)		4D VUE Hybrid	09-09	★	ESC			
Wheel Alignment Adjustments					SCION		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB
	Cam/Bolt(K)	Arm(A)	Cam		4D FR-S	13-16	★	ESC			
	Cam(K)				TD iA	16-16					
	Cam/Bolt(K)	Arm(A)	Cam		4D iM	16-16	★	ESC			
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S iQ	12-15	★	ESC			
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S iQ EV	13-13	★	ESC			
	Cam/Bolt(K)	Cam	Tie Rod		4D tC	05-10					
	Cam/Bolt(K)	Arm(A)	Cam		4D tC	11-16	★	ESC			
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S xA	04-06					
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S xA Release Series 1.0	05-05	★	ESC			
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S xB	04-06	★	ESC			
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S xB	08-15	★	ESC			
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S xD	08-09	★	ESC			
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S xD	10-14	★	ESC			
Wheel Alignment Adjustments					SMART		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB
Subframe	Subframe		Ax-Shift		4D fortwo (450)	05-07	★	ESC			
Subframe	Subframe		Ax-Shift		4D fortwo (451) incl. EV	08-16	★	ESC			
					T fortwo (453)	16-16	★	ESC			
					T fortwo (453) incl. Electric Drive	17-19	★	ESC			

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

4 May require special OEM procedures/tools

ESC Electronic Stability Control (Saturn) Stabilitrak

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					SUBARU			Safety System Alignment Resets							
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ACC	LDW		4WS	AFS	RCS	SVM
	Cam		Cam		4 Ascent	19-22	★	ESC		LDW ◀					
	Cam		Cam		4 Ascent	23-23	★	ESC		LDW ◀					SVM
	Cam	Cam/Bolt(K)	Cam		4D Baja	03-06									
	Cam/Bolt(K)	Arm(A)	Cam		4D BRZ	13-20	★	ESC							
	Cam/Bolt(K)		Cam		4D BRZ	22-23	★	ESC							
	Cam	Arm(A)	Cam		4D XV Crosstrek (incl. Hybrid)	13-14	★	ESC							
	Cam	Arm(A)	Cam		4D Crosstrek/XV Crosstrek	15-17	★	ESC							
	Cam	Arm(A)	Cam		4D Crosstrek/XV Crosstrek Hybrid	15-16	★	ESC							
	Cam		Cam		4 Crosstrek	18-23	★	ESC		LDW ◀					
	Cam		Cam		4 Crosstrek Hybrid	19-23	★	ESC		LDW					
	Cam		Cam		4 Crosstrek	24-24	★	ESC		LDW					
	Cam	Cam(K)	Cam		4D Forester	98-06									
	Cam	Cam(K)	Cam		4D Forester	07-08	★	ESC							
	Cam	Cam(K)	Cam		4D Forester	09-16	★	ESC							
	Cam	Cam(K)	Cam		4D Forester	17-18	★	ESC		LDW					
	Cam		Cam		4 Forester	19-21	★	ESC		LDW ◀					
	Cam		Cam		4 Forester	22-23	★	ESC		LDW					
	Cam	Arm(A)	Cam		4D Impreza / Outback Sport	93-00									
Strut(AU)	Cam	Arm(A)	Cam		4D Impreza / Outback Sport (incl. WRX, STI)	01-07									
	Cam	Arm(A)	Cam		4D Impreza / Outback Sport	08-08	★	ESC							
	Cam	Arm(A)	Cam		4D Impreza / Outback Sport	09-16	★	ESC							
	Cam		Cam		4 Impreza	17-23	★	ESC		LDW ◀					
	Cam		Cam		4 Impreza	24-24	★	ESC		LDW					
	Cam	Arm(A)	Cam		4D Impreza WRX (incl. STI)	08-08	★	ESC							
	Cam	Arm(A)	Cam		4D Impreza WRX (incl. STI)	09-14	★	ESC							
	Cam	Arm(A)	Cam		4D WRX	15-15	★	ESC							
	Cam	Arm(A)	Cam		4D WRX	16-20	★	ESC		LDW					
	Cam		Cam		4 WRX STI	15-17	★	ESC							
	Cam		Cam		4 WRX STI	18-20	★	ESC							
	Cam		Cam		4 WRX STI S209	19-19	★	ESC							
	Cam	Arm(A)	Cam		4D WRX	21-21	★	ESC		LDW					

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

ESC Electronic Stability Control (Subaru) Vehicle Dynamic Control
LDW Lane Departure Warning

Safety System Key

◀ Requires CodeLink©2 WinAlign 15.x or newer and special tools or fixtures

Wheel Alignment Adjustments						SUBARU			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes		Model	Years	★		ESC	ACC	LDW		AEB	4WS	NVS	AFS	RCS
	Cam		Cam			4 WRX STI	21-21	★		ESC								
	Cam		Cam			4 WRX	22-23	★		ESC		LDW						
	Cam	Cam(K)	Cam			4D Legacy/Outback	90-01											
	Cam	Cam(K)	Cam			4D Legacy/Outback	02-06	★		ESC								
	Cam	Cam(K)	Cam			4D Legacy/Outback	07-14	★		ESC								
	Cam		Cam			4 Legacy/Outback	15-15	★		ESC								
	Cam		Cam			4 Legacy/Outback	16-18	★		ESC		LDW						
	Cam		Cam			4 Legacy/Outback	19-19	★		ESC		LDW						
	Cam		Cam			4 Legacy/Outback	20-23	★		ESC		LDW						
	Strut(L)		Cam			4 SVX	92-97											
	Cam/Bolt(K)		Cam			4D Solterra	23-23	★		ESC								
	Cam		Cam			4 Tribeca/B9 Tribeca	06-14	★		ESC								
Wheel Alignment Adjustments						SUZUKI			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Ibs	Notes	Model	Years	★		ESC	ACC	LDW		AEB	4WS	NVS	AFS	RCS
	Cam/Bolt(K)	Cam/Bolt(K)	Cam			4D Aerio	02-07											
Cam	Cam					T Equator	09-11	★		ESC								
Cam	Cam					T Equator	12-12	★		ESC								
	Cam(K)	Cam/Bolt(K)	Cam			4D Esteem	95-02											
	Cam(K)	Cam(K)	Cam			4D Forenza	04-08											
	Cam(K)					TD Grand Vitara / Vitara	99-05											
	Cam/Bolt(K)	Cam	Cam			4D Grand Vitara	06-13											
		Cam	Cam			4 Kizashi	10-13											
	Cam(K)	Cam(K)	Cam			4D Reno	05-08											
	Cam(K)					TD Sidekick	89-98											
	Cam(K)		Cam			4D Swift	89-01											
	Cam/Bolt(K)	Shim(A)	Shim(A)			4S Swift+ w/o ABS	04-11											
	Cam/Bolt(K)					TD Swift+ w/ABS	04-11											
	Cam/Bolt(K)					TD SX4	07-13											
	Cam/Bolt(K)	Cam/Bolt(K)	Cam	Ibs		4D Verona	04-06	★										
	Cam(K)					TD X-90	96-98											
	Cam(K)					TD XL-7/Grand Vitara XL-7	01-06											
	Cam(K)	Cam	Cam			4D XL-7	07-09											

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

ESC Electronic Stability Control (Subaru) Vehicle Dynamic Control
LDW Lane Departure Warning (Suzuki) Electronic Stability Program

Notes

Ibs Requires loading of vehicle before alignment

Safety System Key

Wheel Alignment Adjustments						TESLA			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes	Model	Years	★		ESC	EPS	ACC		LDW	AEB	4WS	NVS	AFS	
Strut(U)	Strut(U)	Slot	Cam	lbs		4D Model 3	17-23	★			EPS								
Cam	Cam		Cam			4 Model S	12-21	★			EPS	ACC							
Cam	Cam		Cam	48		4 Model S Air Susp	12-21	★			EPS	ACC							
Cam	Cam		Tie Rod	48		4 Model S (P2)	21-23	★			EPS								
Cam	Cam		Cam	48		4 Model X	16-21	★			EPS	ACC							
Cam	Cam		Tie Rod	48		4 Model X (P2)	21-23	★			EPS								
Strut(U)	Strut(U)	Slot	Cam	lbs		4D Model Y	20-23	★			EPS								
Strut(U)	Strut(U)	Slot	Cam			4D Model Y Air Susp	20-23	★			EPS								
Shim(O)	Shim(O)	Shim(O)	Tie Rod	lbs		4D Roadster/Roadster Sport	08-11	★											
Wheel Alignment Adjustments						TOYOTA			Safety System Alignment Resets										
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes		Model	Years	★		ESC	ACC	LDW		AEB	4WS	NVS	AFS	RCS	
Cam	Cam				T	4Runner	96-00												
Cam	Cam				T	4Runner	01-23	★		ESC									
	Cam/Bolt(K)	Arm(A)	Cam			4D 86	17-20	★		ESC									
	Cam/Bolt(K)		Cam			4D GR86	22-23	★		ESC									
	Cam/Bolt(K)	Cam(K)	Tie Rod			4D Avalon	95-99												
	Cam/Bolt(K)	Cam(K)	Tie Rod			4D Avalon	00-08	★		ESC									
	Cam/Bolt(K)	Cam(K)	Tie Rod			4D Avalon	09-12	★		ESC									
	Cam/Bolt(K)	Cam(K)	Tie Rod			4D Avalon	13-18												
	Cam/Bolt(K)	Cam(K)	Tie Rod			4D Avalon Hybrid	13-18	★		ESC									
	Cam/Bolt(K)		Cam			4D Avalon (incl. Hybrid)	19-19	★		ESC									
	Cam/Bolt(K)		Cam			4D Avalon	20-22	★		ESC									
	Cam/Bolt(K)		Cam			4D Avalon Hybrid	20-20	★		ESC									
	Cam/Bolt(K)		Cam			4D Avalon Hybrid	21-22	★		ESC									
	Cam/Bolt(K)		Cam			4D bZ4X	23-23	★		ESC									
	Cam/Bolt(K)		Cam			4D C-HR	18-22	★		ESC									
	Cam/Bolt(K)	Cam(K)	Tie Rod			4D Camry	92-96												
	Cam/Bolt(K)	Cam(K)	Tie Rod			4D Camry	97-01												
	Cam/Bolt(K)	Cam(K)	Tie Rod			4D Camry	02-09	★		ESC									
	Cam/Bolt(K)	Cam(K)	Tie Rod			4D Camry	10-11	★		ESC									
	Cam/Bolt(K)	Cam(K)	Tie Rod			4D Camry	12-14												
	Cam/Bolt(K)	Cam(K)	Tie Rod			4D Camry	15-17	★				LDW							
Wheel Alignment Key						Description													
Additional parts/procedure might be needed						Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator													
Aftermarket parts required						★ Vehicle requires safety system alignment or notes													
4 4-wheel alignment, equipped with standard factory adjustments						Reset Required - Standard feature Use CodeLink or OEM scan tool													
4D 4-wheel alignment, may require additional parts/procedures						Optional feature - Reset required if present Use CodeLink or OEM Scan Tool													
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment						Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)													
T Thrust-line alignment (no rear adjustments)						Reset required - Standard Feature, Use OEM scan tool (No CL support yet)													
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures																			
(A)	Aftermarket Part	(K)	Kit	(O)	OEM Part	ACC Adaptive Cruise Control (Toyota) Vehicle Stability Control / Vehicle													
(B-J)	Ball-Joint	(L)	Lower	(U)	Upper	EPS Electronic Power Steering Dynamic Integrated Management													
						ESC Electronic Stability Control (Tesla) Electronic Stability Control													
						LDW Lane Departure Warning													
Notes						Safety System Key													
4 May require special OEM procedures/tools						No Additional Requirements													
8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.																			
lbs Requires loading of vehicle before alignment																			

Wheel Alignment Adjustments					TOYOTA		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB 4WS NVS AFS RCS
	Cam/Bolt(K)		Cam		4D Camry	18-23	★	ESC			
	Cam/Bolt(K)	Cam(K)	Tie Rod		4D Camry Hybrid	07-11	★	ESC			
	Cam/Bolt(K)	Cam(K)	Tie Rod		4D Camry Hybrid	12-14	★	ESC			
	Cam/Bolt(K)	Cam(K)	Tie Rod		4D Camry Hybrid	15-17	★	ESC		LDW	
	Cam/Bolt(K)		Cam		4D Camry Hybrid	18-20	★	ESC			
	Cam/Bolt(K)		Cam		4D Camry Hybrid	21-23	★	ESC			
	Cam/Bolt(K)	Cam(K)	Tie Rod		4D Camry Solara	99-03					
	Cam/Bolt(K)	Cam(K)	Tie Rod		4D Camry Solara	04-08	★	ESC			
	Cam/Bolt(K)	Cam(K)	Tie Rod		4D Celica	94-99					
	Cam/Bolt(K)	Cam	Cam		4D Celica	00-05					
	Cam/Bolt(K)		Tie Rod		4D Corolla	93-02					
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Corolla	03-04					
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Corolla	05-09	★	ESC			
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Corolla	10-18	★	ESC			
	Cam/Bolt(K)	Arm(A)	Cam		4D Corolla iM	17-18	★	ESC			
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Corolla Sedan	19-19	★	ESC			
	Cam/Bolt(K)		Cam		4D Corolla Hatchback	19-19	★	ESC			
	Cam/Bolt(K)		Cam		4D Corolla (incl. Hybrid)	20-21	★	ESC			
	Cam/Bolt(K)		Cam		4D Corolla	22-22	★	ESC			
	Cam/Bolt(K)		Cam		4D Corolla Hybrid	22-22	★	ESC			
	Cam/Bolt(K)				TD Corolla Torsion Beam Axle	23-23	★	ESC			
	Cam/Bolt(K)		Cam		4D Corolla IRS (incl GR Corolla)	23-23	★	ESC			
	Cam/Bolt(K)		Cam		4D Corolla Hybrid	23-23	★	ESC			
	Cam/Bolt(K)				TD Corolla Cross FWD	22-23	★	ESC			
	Cam/Bolt(K)		Cam		4D Corolla Cross AWD	22-23	★	ESC			
	Cam/Bolt(K)		Cam		4D Corolla Cross Hybrid	23-23	★	ESC			
	Cam/Bolt(K)		Cam		4D Crown	23-23	★	ESC			
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Echo	00-05					
Cam	Cam				T FJ Cruiser	07-14	★	ESC			
	Cam/Bolt(K)	Cam/Bolt(K)	Tie Rod		4D Highlander 4X2	01-04	★	ESC			
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D Highlander 4X4	01-04	★	ESC			
	Cam/Bolt(K)	Cam/Bolt(K)	Tie Rod		4D Highlander 4X2	05-13	★	ESC			
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D Highlander 4X4	05-13	★	ESC			
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D Highlander	14-16	★	ESC		LDW	

Wheel Alignment Key	Description
Additional parts/procedure might be needed	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
Aftermarket parts required	★ Vehicle requires safety system alignment or notes
4 4-wheel alignment, equipped with standard factory adjustments	Reset Required - Standard feature Use CodeLink or OEM scan tool
4D 4-wheel alignment, may require additional parts/procedures	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T Thrust-line alignment (no rear adjustments)	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A) Aftermarket Part (K) Kit (O) OEM Part
(B-J) Ball-Joint (L) Lower (U) Upper

Notes

No Notes

ESC Electronic Stability Control (Toyota) Vehicle Stability Control / Vehicle
LDW Lane Departure Warning Dynamic Integrated Management

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					TOYOTA			Safety System Alignment Resets							
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ACC	LDW		4WS	NVS	AFS	RCS
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D Highlander	17-19	★	ESC							
	Cam/Bolt(K)		Cam		4D Highlander	20-23	★	ESC							
	Cam/Bolt(K)	Cam/Bolt(K)	Tie Rod		4D Highlander Hybrid 4X2	06-07	★	ESC							
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D Highlander Hybrid 4X4	06-13	★	ESC							
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D Highlander Hybrid	14-16	★	ESC		LDW					
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D Highlander Hybrid	17-19	★	ESC							
	Cam/Bolt(K)		Cam		4D Highlander Hybrid	20-23	★	ESC							
Bushing	Bushing				TD Land Cruiser	79-97									
Cam	Cam				T Land Cruiser	98-00	★							AFS	
Cam	Cam				T Land Cruiser	01-11	★	ESC						AFS	
Cam	Cam				T Land Cruiser	13-21	★	ESC						AFS	
	Cam/Bolt(K)	Cam(K)	Cam		4D MR2 Sypder	00-05									
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Matrix 4X2	03-04									
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Matrix 4X2	05-08	★	ESC							
	Cam/Bolt(K)	Cam	Cam		4D Matrix 4X4	03-04									
	Cam/Bolt(K)	Cam	Cam		4D Matrix 4X4	05-06	★	ESC							
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Matrix 4X2 (exc/XRS) Torsion Beam Axle	09-09	★	ESC							
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Matrix 4X2 (exc/XRS) Torsion Beam Axle	10-14	★	ESC							
	Cam/Bolt(K)	Cam	Cam		4D Matrix 4X2 XRS/4X4	09-09	★	ESC							
	Cam/Bolt(K)	Cam	Cam		4D Matrix 4X2 XRS/4X4	10-13	★	ESC							
	Cam/Bolt(K)				TD Mirai	16-18	★	ESC		LDW					
	Cam/Bolt(K)				TD Mirai	19-20	★	ESC							
			Cam		4 Mirai	21-23	★	ESC							
	Cam/Bolt(K)				TD Paseo	92-99									
	Cam/Bolt(K)				TD Previa	91-97									
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Prius	01-09	★	ESC							
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Prius	10-15	★	ESC		LDW					
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Prius PHV	10-15	★	ESC		LDW					
	Cam/Bolt(K)		Cam		4D Prius	16-22	★	ESC							
	Cam/Bolt(K)		Cam		4D Prius	23-23	★	ESC							
	Cam/Bolt(K)		Cam		4D Prius Prime	17-19	★	ESC							
	Cam/Bolt(K)		Cam		4D Prius Prime	20-22	★	ESC							
	Cam/Bolt(K)		Cam		4D Prius Prime	23-23	★	ESC							
	Cam/Bolt(K)				TD Prius c	12-20	★	ESC							

Wheel Alignment Key	Description
Additional parts/procedure might be needed	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
Aftermarket parts required	★ Vehicle requires safety system alignment or notes
4 4-wheel alignment, equipped with standard factory adjustments	Reset Required - Standard feature Use CodeLink or OEM scan tool
4D 4-wheel alignment, may require additional parts/procedures	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T Thrust-line alignment (no rear adjustments)	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A) Aftermarket Part (K) Kit (O) OEM Part
(B-J) Ball-Joint (L) Lower (U) Upper

Notes

No Notes

AFS Active Front Steering (Toyota) Vehicle Stability Control / Vehicle
ESC Electronic Stability Control Dynamic Integrated Management
LDW Lane Departure Warning

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments							TOYOTA		Safety System Alignment Resets						
Front Caster	Front Camber	Rear Camber	Rear Toe	lbs	Notes	Model	Years	★	ESC	EPS	ACC	LDW	AEB	4WS	RCS
	Cam/Bolt(K)					TD Prius v	12-14	★	ESC						
	Cam/Bolt(K)					TD Prius v	15-17	★	ESC			LDW			
	Cam/Bolt(K)					TD Prius v	18-18	★	ESC						
	Cam/Bolt(K)	Cam	Cam			4D RAV4	96-03								
	Cam/Bolt(K)	Cam	Cam			4D RAV4	04-05	★	ESC						
	Cam/Bolt(K)	Arm(A)	Tie Rod			4D RAV4	06-11	★	ESC						
	Cam/Bolt(K)	Arm(A)	Cam			4D RAV4 (exc/EV)	11-12	★	ESC						
	Cam/Bolt(K)	Arm(A)	Cam			4D RAV4 (exc/EV)	13-15	★	ESC			LDW			
	Cam/Bolt(K)	Arm(A)	Cam			4D RAV4 EV	12-14	★	ESC						
	Cam/Bolt(K)	Arm(A)	Cam			4D RAV4 (incl/HV)	16-18	★	ESC						
	Cam/Bolt(K)		Cam			4D RAV4 (incl/HV)	19-23	★	ESC						
	Cam/Bolt(K)		Cam			4D RAV4 Prime (PHEV)	21-23	★	ESC						RCS
Cam	Cam					T Sequoia	01-07	★	ESC						
Cam	Cam	Cam	Cam			4 Sequoia	08-22	★	ESC						
Cam	Cam					T Sequoia	23-23	★	ESC						
	Cam/Bolt(K)	Shim(A)	Shim(A)			4S Sienna	98-00								
	Cam/Bolt(K)	Shim(A)	Shim(A)			4S Sienna	01-03	★	ESC						
	Cam/Bolt(K)	Shim(A)	Shim(A)			4S Sienna 4X2	04-07	★	ESC						
	Cam/Bolt(K)	Shim(A)	Shim(A)			4S Sienna 4X2	08-10	★	ESC						
	Cam/Bolt(K)					TD Sienna 4X4	04-05	★	ESC						
	Cam/Bolt(K)					TD Sienna 4X4	06-07	★	ESC						
	Cam/Bolt(K)					TD Sienna 4X4	08-10	★	ESC						
	Cam/Bolt(K)					TD Sienna	11-20	★	ESC						
	Cam/Bolt(K)		Cam			4D Sienna	21-23	★	ESC						
	Cam/Bolt(K)		Cam			4D Sienna w/Autono-MaaS Package	22-23	★	ESC						
Cam	Cam	Cam	Cam			4 Supra	89-98								
	Knuckle	Cam	Cam	lbs		4D Supra	20-23	★		EPS	ACC				
Shim(O)	Shim(O)					TD T100 4X2	93-98								
Cam	Cam					T T100 4X4	93-98								
Shim(O)	Shim(O)					TD Tacoma 4X2	95-04								
Cam	Cam					T Tacoma 4X2 PreRunner / 4X4	95-04								
Cam	Cam					T Tacoma	05-08	★	ESC						
Cam	Cam					T Tacoma	09-23	★	ESC						
	Cam/Bolt(K)					TD Tercel	91-98								

Wheel Alignment Key	Description
Additional parts/procedure might be needed	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
Aftermarket parts required	★ Vehicle requires safety system alignment or notes
4 4-wheel alignment, equipped with standard factory adjustments	Reset Required - Standard feature Use CodeLink or OEM scan tool
4D 4-wheel alignment, may require additional parts/procedures	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T Thrust-line alignment (no rear adjustments)	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A) Aftermarket Part (K) Kit (O) OEM Part
(B-J) Ball-Joint (L) Lower (U) Upper

Notes

lbs Requires loading of vehicle before alignment

LDW Lane Departure Warning (Toyota) Vehicle Stability Control / Vehicle
ESC Electronic Stability Control Dynamic Integrated Management
ACC Adaptive Cruise Control EPS Electronic Power Steering
RCS Rear Camera System

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					TOYOTA			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	ACC	LDW		AEB	4WS	NVS	AFS	RCS
Cam	Cam				T Tundra	00-04											
Cam	Cam				T Tundra	05-06	★	ESC									
Cam	Cam				T Tundra	07-21	★	ESC									
Cam	Cam				T Tundra	22-23	★	ESC									
	Cam/Bolt(K)	Cam/Bolt(K)	Tie Rod		4D Venza 4X2	09-16											
	Cam/Bolt(K)	Cam/Bolt(K)	Cam		4D Venza 4X4	09-16											
	Cam/Bolt(K)		Cam		4D Venza	21-23	★	ESC									
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Yaris	06-11	★	ESC									
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Yaris Hatchback (France/Japan Production)	12-19	★	ESC									
	Cam/Bolt(K)	Shim(A)	Shim(A)		4S Yaris Sedan (Japan Production)	12-13	★	ESC									
	Cam(K)				TD Yaris/Yaris iA/Yaris R (Mexico Production)	16-20											
Wheel Alignment Adjustments					VINFAST			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	ACC	LDW		AEB	4WS	NVS	AFS	RCS
		Cam	Cam		4D VF8	23-23	★	ESC									
Wheel Alignment Adjustments					VOLKSWAGEN			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★		ESC	ACC	LDW		AEB	4WS	NVS	AFS	
	Subframe	Cam	Cam		4D Arteon	19-20	★	ESC	ACC▶	LDW▶							
	Subframe	Cam	Cam		4D Arteon	21-23	★	ESC	ACC▶	LDW▶							
	Subframe	Cam	Cam		4D Atlas	18-23	★	ESC	ACC▶	LDW▶							
	Subframe	Cam	Cam		4D Atlas Cross Sport	20-23	★	ESC	ACC▶	LDW▶							
Strut(AU)	Subframe		Ax-Shift		4D Beetle	98-01											
Strut(AU)	Subframe		Ax-Shift		4D Beetle	02-06	★	ESC									
Strut(AU)	Subframe		Ax-Shift		4D Beetle	07-10	★	ESC									
	Subframe				TD Beetle (Rear Beam Axle)	12-13	★	ESC									
	Subframe	Cam	Cam		4D Beetle (w/IRS)	12-19	★	ESC									
	Cam(K)	Shim(A)*	Shim(A)*		4S Cabriolet	95-02											
	Subframe	Cam	Cam		4D CC	09-17	★	ESC	ACC	LDW							
	Subframe	Cam	Cam		4D Eos	07-16	★	ESC									
Cam	Cam		Cam		4 Eurovan	93-00											

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

▶ Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

ACC Adaptive Cruise Control	(Toyota)	Vehicle Stability Control /
ESC Electronic Stability Control		Vehicle Dynamic Integrated
LDW Lane Departure Warning		Management
	(Volkswagen)	Electronic Stability Program

Notes

* Except vehicles equipped with rear disc brakes

Safety System Key

▶ Requires CodeLink©2 WinAlign 16.x or newer and special tools or fixtures

Wheel Alignment Adjustments					VOLSKWAGEN		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB 4WS NVS AFS
Cam	Cam		Cam		4 Eurovan	01-03	★	ESC			
	Cam(K)	Shim(A)*	Shim(A)*		4S Golf/GTI(A2/A3)	85-99					
Strut(AU)	Subframe		Ax-Shift		4D Golf/GTI (A4)	99-01					
Strut(AU)	Subframe		Ax-Shift		4D Golf/GTI (A4)	02-06	★	ESC			
Strut(AU)	Subframe	Arm-Slot	Arm-Slot		4D Golf R32 (A4)	04-04	★	ESC			
Strut(AU)	Subframe		Ax-Shift		4D City Golf (A4) Canada	07-10					
	Subframe	Cam	Cam		4D Rabbit/GTI (A5)	06-08	★	ESC			
	Subframe	Cam	Cam		4D Rabbit/GTI (A5)	09-09	★	ESC			
	Subframe	Cam	Cam		4D R32 (A5)	08-08	★	ESC			
	Subframe	Cam	Cam		4D Golf/GTI (A6)	10-14	★	ESC			
	Subframe				TD Golf (A7) w/Rear Beam Axle	15-16	★	ESC	ACC▶	LDW	
	Subframe	Cam	Cam		4D Golf/GTI/Golf R (A7) w/IRS	15-17	★	ESC	ACC▶	LDW	
	Subframe	Cam	Cam		4D Golf/GTI (A7)	18-21	★	ESC	ACC▶	LDW▶	
	Subframe	Cam	Cam		4D Golf R (A7)	18-19	★	ESC	ACC▶	LDW▶	
	Subframe	Cam	Cam		4D Golf GTI/R (A8)	22-23	★	ESC	ACC	LDW	
	Subframe	Cam	Cam		4D e-Golf	15-19	★	ESC	ACC	LDW	
	Subframe	Cam	Cam		4D e-Golf	20-20	★	ESC	ACC	LDW	
Strut(AU)	Subframe		Ax-Shift		4D Golf/Jetta Wagon (A4)	01-01					
Strut(AU)	Subframe		Ax-Shift		4D Golf/Jetta Wagon (A4)	02-05	★	ESC			
	Subframe	Cam	Cam		4D Golf/Jetta Wagon (A5/A6 SportWagen)	09-14	★	ESC			
	Subframe				TD Golf SportWagen (A7) w/Rear Beam Axle	15-16	★	ESC	ACC▶	LDW	
	Subframe	Cam	Cam		4D Golf SportWagen (A7) w/IRS	15-17	★	ESC	ACC▶	LDW	
	Subframe	Cam	Cam		4D Golf SportWagen (A7)	18-19	★	ESC	ACC▶	LDW	
	Subframe	Cam	Cam		4D ID.4	21-23	★	ESC	ACC	LDW	
	Subframe	Cam	Cam		4D ID. Buzz	24-24	★	ESC	ACC	LDW	
	Cam(K)	Shim(A)*	Shim(A)*		4S Jetta	85-99					
Strut(AU)	Subframe		Ax-Shift		4D Jetta (A4)	99-01					
Strut(AU)	Subframe		Ax-Shift		4D Jetta (A4)	02-05	★	ESC			
Strut(AU)	Subframe		Ax-Shift		4D City Jetta (A4) Canada	07-09					
	Subframe	Cam	Cam		4D Jetta (A5)	05-08	★	ESC			
	Subframe	Cam	Cam		4D Jetta (A5)	09-10	★	ESC			
	Subframe				TD Jetta Sedan (A6) w/Rear Beam Axle	11-13	★	ESC			

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

* Except vehicles equipped with rear disc brakes

ACC	Adaptive Cruise Control	(Volkswagen) Electronic Stability Program
ESC	Electronic Stability Control	
LDW	Lane Departure Warning	

Safety System Key

▶ Requires CodeLink©2 WinAlign 16.x or newer and special tools or fixtures

Wheel Alignment Adjustments					VOLKSWAGEN		Safety System Alignment Resets				
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	ACC	LDW	AEB 4WS NVS AFS
	Subframe	Cam	Cam		4D Jetta Sedan (A6) w/IRS	12-18	★	ESC	ACC		
	Subframe				TD Jetta (A7) w/Rear Beam Axle	19-23	★	ESC	ACC▶	LDW▶	
	Subframe	Cam	Cam		4D Jetta (A7) w/IRS	19-23	★	ESC	ACC▶	LDW▶	
	Cam(K)	Shim(A)*	Shim(A)*		4S Passat	90-97					
Arm(A)	Subframe	Shim(A)*	Ax-Shift	7	4D Passat	98-01	★				
Arm(A)	Subframe	Shim(A)*	Ax-Shift	7	4D Passat	02-05	★	ESC			
Arm(A)	Subframe	Cam	Cam	7	4D Passat 4Motion (AWD) incl. W8	00-01	★				
Arm(A)	Subframe	Cam	Cam	7	4D Passat 4Motion (AWD) incl. W8	02-05	★	ESC			
	Subframe	Cam	Cam		4D Passat	06-10	★	ESC	ACC	LDW	
	Subframe	Cam	Cam		4D Passat	11-15	★	ESC			
	Subframe	Cam	Cam		4D Passat	16-19	★	ESC	ACC▶	LDW	
	Subframe	Cam	Cam		4D Passat	20-20	★	ESC	ACC▶	LDW▶	
	Subframe	Cam	Cam		4D Passat	21-22	★	ESC	ACC▶	LDW▶	
Arm(A)	Subframe	Cam	Cam	78	4D Phaeton	04-04	★		ACC		
Arm(A)	Subframe	Cam	Cam	78	4D Phaeton	05-05	★	ESC	ACC		
Arm(A)	Subframe	Cam	Cam	78	4D Phaeton	06-06	★	ESC	ACC		
Subframe	Sub/Cam(K)	Shim(A)*	Shim(A)*		4S Routan	09-14					
	Subframe				TD Taos FWD	22-23	★	ESC	ACC▶	LDW▶	
	Subframe	Cam	Cam		4D Taos 4Motion (AWD)	22-23	★	ESC	ACC▶	LDW▶	
	Subframe	Cam	Cam		4D Tiguan/Tiguan Limited	09-17	★	ESC		LDW	
	Subframe	Cam	Cam		4D Tiguan	18-23	★	ESC	ACC▶	LDW▶	
	Subframe	Cam	Cam		4D Tiguan Limited	18-18	★	ESC		LDW	
Cam	Cam	Cam	Cam		4 Touareg	04-04	★	ESC	ACC		
Cam	Cam	Cam	Cam	8	4 Touareg Air Susp	04-04	★	ESC	ACC		
Cam	Cam	Cam	Cam		4 Touareg	05-05	★	ESC	ACC		
Cam	Cam	Cam	Cam	8	4 Touareg Air Susp	05-05	★	ESC	ACC		
Cam	Cam	Cam	Cam		4 Touareg	06-10	★	ESC	ACC		
Cam	Cam	Cam	Cam	8	4 Touareg Air Susp	06-10	★	ESC	ACC		
Cam	Cam	Cam	Cam		4 Touareg	11-16	★	ESC	ACC▶	LDW	
Cam	Cam	Cam	Cam	8	4 Touareg Air Susp	11-16	★	ESC	ACC▶	LDW	
Cam	Cam	Cam	Cam		4 Touareg	17-17	★	ESC	ACC▶	LDW	
Cam	Cam	Cam	Cam	8	4 Touareg Air Susp	17-17	★	ESC	ACC▶	LDW	

Wheel Alignment Key

Additional parts/procedure might be needed
Aftermarket parts required
4 4-wheel alignment, equipped with standard factory adjustments
4D 4-wheel alignment, may require additional parts/procedures
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment
T Thrust-line alignment (no rear adjustments)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures

Description

Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★ Vehicle requires safety system alignment or notes
Reset Required - Standard feature Use CodeLink or OEM scan tool
Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

* Except vehicles equipped with rear disc brakes
7 Requires Audi/VW OEM tools/procedures to perform raised toe adjustment
8 Requires OEM scan tool/procedure to perform height adjustment before a wheel alignment.

ACC	Adaptive Cruise Control	(Volkswagen) Electronic Stability Program
ESC	Electronic Stability Control	
LDW	Lane Departure Warning	

Safety System Key

- ▶ Requires CodeLink©2 WinAlign 16.x or newer and special tools or fixtures

Wheel Alignment Adjustments					VOLVO			Safety System Alignment Resets									
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model		Years	★	 ESC	 EPS	 ACC	 LDW	 AEB	 4WS	 NVS	 AFS	
	Strut(L)		Arm-Slot		4	850	94-97										
	Strut(U)		Cam	4	4	940 / 960 Multilink	95-97	★									
		Arm(A)	Cam		4D	C30	08-13	★	ESC								
			Cam	4	4	C40 Recharge (BEV)	22-23	★									
	Strut(L)	Cam	Cam		4	S40 / V40	00-04										
		Cam/Bolt(K)	Cam		4D	S40 (2004.5-)	04-06	★	ESC								
		Cam/Bolt(K)	Cam		4D	S40	07-11	★	ESC								
			Cam		4	XC40	19-23										
			Cam	4	4	XC40 Recharge (BEV)	21-23	★									
		Cam/Bolt(K)	Cam		4D	V50	05-06	★	ESC								
		Cam/Bolt(K)	Cam		4D	V50	07-11	★	ESC								
	Strut(L)		Cam		4	S60	01-06	★	ESC								
	Strut(L)		Cam		4	S60	07-09	★	ESC								
			Cam		4	S60	11-18	★	ESC								
			Cam		4	S60 Cross Country	16-18	★	ESC								
			Cam		4	S60 Inscription (LWB)	16-18	★	ESC								
			Cam		4	S60	19-23	★		EPS							
			Cam		4	V60 (incl. Cross Country)	15-18	★	ESC								
			Cam		4	V60 (incl. Cross Country)	19-23	★		EPS							
			Cam		4	XC60	10-17	★	ESC								
			Cam		4	XC60	18-23	★		EPS							
	Strut(L)		Arm-Slot		4	C70	98-98										
	Strut(L)		Arm-Slot		4	C70	99-02	★	ESC								
	Strut(L)		Arm-Slot		4	C70	03-04	★	ESC								
		Arm(A)	Cam		4D	C70	06-13	★	ESC								
	Strut(L)		Arm-Slot		4	S70 / V70	98-98										
	Strut(L)		Arm-Slot		4	S70 / V70	99-00	★	ESC								
	Strut(L)		Cam		4	V70	01-06	★	ESC								
	Strut(L)		Cam		4	V70	07-07	★	ESC								
			Cam		4	V70	08-10	★	ESC								
	Strut(L)		Cam		4	XC70	03-06	★	ESC								
	Strut(L)		Cam		4	XC70	07-07	★	ESC								
			Cam		4	XC70	08-16	★	ESC								
	Strut(L)		Cam		4	S80	99-06	★	ESC								

Wheel Alignment Key	Description
Additional parts/procedure might be needed	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
Aftermarket parts required	★ Vehicle requires safety system alignment or notes
4 4-wheel alignment, equipped with standard factory adjustments	Reset Required - Standard feature Use CodeLink or OEM scan tool
4D 4-wheel alignment, may require additional parts/procedures	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
4S 4-wheel alignment, aftermarket full contact rear shims for rear adjustment	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
T Thrust-line alignment (no rear adjustments)	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)
TD Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A) Aftermarket Part (K) Kit (O) OEM Part
(B-J) Ball-Joint (L) Lower (U) Upper

Notes

4 May require special OEM procedures/tools

EPS Electronic Power Steering (Volvo) Dynamic Stability and Traction Control
ESC Electronic Stability Control

Safety System Key

No Additional Requirements

Wheel Alignment Adjustments					VOLVO			Safety System Alignment Resets							
Front Caster	Front Camber	Rear Camber	Rear Toe	Notes	Model	Years	★	ESC	EPS	ACC	LDW	AEB	4WS	NVS	AFS
			Cam		4 S80	07-16	★	ESC							
	Strut(U)		Cam		4 S90 / V90	97-98									
			Cam		4 S90	17-17	★		EPS						
			Cam		4 S90	18-23	★		EPS						
			Cam		4 V90 (incl. Cross Country)	17-23	★		EPS						
	Strut(L)		Cam		4 XC90	03-05	★	ESC							
	Strut(L)		Cam		4 XC90	06-08	★	ESC							
	Strut(L)		Cam		4 XC90	09-14	★	ESC							
			Cam		4 XC90	16-23	★		EPS						

Wheel Alignment Key		
▲	Additional parts/procedure might be needed	
■	Aftermarket parts required	
4	4-wheel alignment, equipped with standard factory adjustments	
4D	4-wheel alignment, may require additional parts/procedures	
4S	4-wheel alignment, aftermarket full contact rear shims for rear adjustment	
T	Thrust-line alignment (no rear adjustments)	
TD	Thrust-line alignment (no rear adjustments) may require additional parts/procedures	

(A) Aftermarket Part	(K) Kit	(O) OEM Part
(B-J) Ball-Joint	(L) Lower	(U) Upper

Notes

No Notes

Description	
▼	Pre-Alignment Manual Procedure to Centralize Rear Toe Actuator
★	Vehicle requires safety system alignment or notes
■	Reset Required - Standard feature Use CodeLink or OEM scan tool
■	Optional feature - Reset required if present Use CodeLink or OEM Scan Tool
■	Optional feature - Reset required if present, Use OEM scan tool (No CL support yet)
■	Reset required - Standard Feature, Use OEM scan tool (No CL support yet)

EPS	Electronic Power Steering	(Volvo) Dynamic Stability and Traction Control
ESC	Electronic Stability Control	

Safety System Key

No Additional Requirements

WHEEL ALIGNMENT KEY

Original	Modded
AFM Arm	Arm ^A
AFM Ball-Joint	B-Joint ^A
AFM Bushing	Bushing ^A
AFM Shim	Shim ^A
AFM Shim*	Shim* ^A
AFM Strut (U)	Strut ^{U/A}
AFM Strut Rod	Strut Rod ^A
Arm	Arm
Arm-Slot	Arm-Slot
Slot/Bolt ^K	Slot/Bolt ^K
Axle Shift	Ax-Shift
Ball Joint	B-Joint
Bolt Kit	Bolt ^K
Bushing	Bushing
Cam	Cam
Cam Kit	Cam ^K
Cam/Bolt ^K	Cam/Bolt ^K
Cam/OEM Shim	Cam/Shim ^O
Control Arm	Ctrl-Arm
Knuckle	Knuckle
OEM Arm	Arm ^O
OEM Bolt Kit	Bolt ^{K/O}
OEM Shim	Shim ^O
Shim/Cam	Shim/Cam
Slot	Slot
Strut (L)	Strut ^L
Strut Rod	Strut Rod
Strut (U)	Strut ^U
Subframe	Subframe
Subframe/ B-Joint	Sub/B-J
Sub/Bolt Kit	Sub/Bolt ^K
Subframe/Bracket	Sub/Brkt
Subframe/Cam K	Sub/Cam ^K
Tie Rod	Tie Rod
Wedge	Wedge

SAFETY SYSTEM® ALIGNMENT KEY

ESC	Electronic Stability Control	EPS	Electronic Power Steering
ACC	Adaptive Cruise Control	LDW	Lane Departure Warning
AFS	Active Front Steering	4WS	Four-Wheel Steering
FCW	Forward Collision Warning	NVS	Night Vision System
RCS	Rear Camera System	AFL	Adaptive Front Lighting
TPM	Tire Pressure Monitor	AEB	Automatic Emergency Braking

OEM Definitions Electronic Stability Control

(Acura) VSA Vehicle Stability Assist

(Audi) ESP Electronic Stability Program

(Bentley) ESP Electronic Stability Program

(BMW) DSC Dynamic Stability Control

(Buick) StabiliTrak

(Cadillac) StabiliTrak

(Chevrolet) StabiliTrak

(Chevrolet) StabiliTrak or Active Handling (Corvette)

(Ford) AdvanceTrac

(GMC) StabiliTrak

(Honda) VSA Vehicle Stability Assist

(Infiniti) VDC Vehicle Dynamic Control

(Jaguar) DSC Dynamic Stability Control

(Land Rover) DSC Dynamic Stability Control

(Lexus) VSC Vehicle Stability Control
or VDIM - Vehicle Dynamics Integrated Management

(Mini) DSC Dynamic Stability Control

(Mitsubishi) M-ATSC Mitsubishi Active Traction and Skid Control

(Nissan) VDC Vehicle Dynamic Control

(Pontiac) StabiliTrak

(Porsche) PSM Porsche Stability Management

(Saab) ESP Electronic Stability Program

(Saturn) StabiliTrak

(Scion) VSC Vehicle Stability Control

(Smart) ESP Electronic Stability Program

(Subaru) VDC Vehicle Dynamic Control

(Suzuki) ESP Electronic Stability Program

(Toyota) VSC Vehicle Stability Control

(Volkswagen) ESP Electronic Stability Program

(Volvo) DSTC Dynamic Stability and Traction Control

CodeLink® reset procedure updates are complimentary for Hunter customers with the latest WinAlign® Specification Database. See your local Hunter Service Representative for equipment requirements and more information. There are many differences regarding ESC installations for models sold in Canada/Mexico. This document only covers ESC installations in the USA.

Because of continuing technological advancements, specifications, models and options are subject to change without notice.

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