

# CITY AUTO PTE LTD

BLK 8 SIN MING IND. EST., #01-58/60/62  
SINGAPORE 575643

Phone Number: 6453-1235

Fax Number: 6453-7944

Customer: EM 1 AUTO	Date: 8/31/2022 1:19 PM
Company:	VIN
License NO: SMH 5698H	Technician:
Odometer:	Order NO:

## VEHICLE ALIGNMENT REPORT

BMW, X SERIES (X2-F39) FWD Sport Suspension, 18-18 (Customized)

Primary Angles			Initial	Specifications		Final
				Min.	Max.	
Front	Caster	Left	7°14'	---	---	7°24'
		Right	6°59'	---	---	7°06'
	Camber	Left	-0°30'	-1°30'	-0°40'	-0°18'
		Right	-2°48'	-1°30'	-0°40'	-2°48'
	Toe	Left	0°01'	0°04'	0°08'	0°02'
		Right	0°05'	0°04'	0°08'	0°08'
Total		0°04'	0°08'	0°16'	0°10'	
Rear	Camber	Left	-0°54'	-1°52'	-1°42'	-0°48'
		Right	-1°42'	-1°52'	-1°42'	-1°48'
	Toe	Left	0°05'	0°07'	0°11'	0°05'
		Right	0°02'	0°07'	0°11'	0°00'
		Total	0°07'	0°14'	0°22'	0°05'
	Thrust Angle			0°02'	0°12'	0°03'
Secondary Angles			Initial	Specifications		Final
				Min.	Max.	
SAI	Left		14°18'	---	---	14°18'
	Right		15°18'	---	---	15°18'
Included Angle	Left		13°48'	---	---	14°00'
	Right		12°30'	---	---	12°30'
Toe Out On Turns	Left		---	---	---	---
	Right		---	---	---	---
Max Turn Inside	Left		---	38°37'	38°37'	---
	Right		---	38°37'	38°37'	---
Toe Curve Change	Left		---	---	---	---
	Right		---	---	---	---
Setback	Front		3mm	---	---	3mm
	Rear		-7mm	---	---	-7mm
Track Width Diff.			35mm			35mm
Wheel Base Diff.			10mm			10mm
Front Ride Height	Left		---	651mm	671mm	---
	Right		---	651mm	671mm	---
Rear Ride Height	Left		---	646mm	666mm	---
	Right		---	646mm	666mm	---
Frame Angle						---

**CITY AUTO PTE LTD**

BLK 8 SIN MING IND. EST., #01-58/60/62

SINGAPORE 575643

Phone Number: 6453-1235

Fax Number: 6453-7944

Customer: EM 1 AUTO	Date: 9/3/2022 1:27 PM
Company:	VIN
License NO: SMH 5698H	Technician:
Odometer:	Order NO:

**VEHICLE ALIGNMENT REPORT**

BMW, X SERIES (X2-F39) FWD Sport Suspension, 18-18 (Customized)

Primary Angles			Initial	Specifications		Final
				Min.	Max.	
Front	Caster	Left	7°20'	----	----	7°24'
		Right	7°08'	----	----	6°48'
	Camber	Left	-0°36'	-1°30'	-0°40'	-0°36'
		Right	-1°12'	-1°30'	-0°40'	-0°36'
	Toe	Left	-0°01'	0°04'	0°08'	0°01'
		Right	0°04'	0°04'	0°08'	0°01'
Total		0°03'	0°08'	0°16'	0°01'	
Rear	Camber	Left	-0°54'	-1°52'	-1°42'	-1°00'
		Right	-1°42'	-1°52'	-1°42'	-1°30'
	Toe	Left	0°04'	0°07'	0°11'	0°07'
		Right	0°04'	0°07'	0°11'	0°07'
		Total	0°08'	0°14'	0°22'	0°14'
	Thrust Angle		0°00'	0°12'		0°00'
Secondary Angles			Initial	Specifications		Final
				Min.	Max.	
SAI	Left		14°30'	----	----	14°30'
	Right		15°04'	----	----	15°04'
Included Angle	Left		13°54'	----	----	13°54'
	Right		13°52'	----	----	14°28'
Toe Out On Turns	Left		----	----	----	----
	Right		----	----	----	----
Max Turn Inside	Left		----	38°37'	38°37'	----
	Right		----	38°37'	38°37'	----
Toe Curve Change	Left		----	----	----	----
	Right		----	----	----	----
Setback	Front		5mm	----	----	5mm
	Rear		-5mm	----	----	-5mm
Track Width Diff.			29mm			29mm
Wheel Base Diff.			10mm			10mm
Front Ride Height	Left		----	651mm	671mm	----
	Right		----	651mm	671mm	----
Rear Ride Height	Left		----	646mm	666mm	----
	Right		----	646mm	666mm	----
Frame Angle						----