

XRAY X4'23

FRONT & REAR SUSPENSION

FRONT CASTER: 5°, 4°, 3°. Adjust with eccentric bushings.

BUMP STEER: 3.5 /mm

HEIGHT: 19 /mm

SHIM: 6.5 /mm

UPPER CLAMP: STD. [X] -1.5mm

REAR CASTER: 0.5°, 1.5°, 2.5°, 3.5°, 4.5°, 5.5°. Adjust with eccentric bushings.

UPPER CLAMP: STD. [X] -1.5mm

TOE GAIN: 5.5 /mm

TOE: 3 /mm RF, 5.4 /mm RR

RIDE HEIGHT: 2.5 /mm FF, 5.2 /mm FR

Servo Saver: [X] SERVO SAVER, [X] SERVO HORN

2 /degr. **CAMBER**
Left=Right

BODY STOP
YES ☒ NO ☐
/mm

FRONT SUSPENSION

1 /mm **SHIM** **3** /mm

FRONT HUB
HARD ☒
GRAPHITE ☐
ALU ☐

FRONT BRACE
YES ☐ NO ☒

FRONT SHOCK POSITION
1 2

BULKHEAD SHIMS
YES ☒ 3mm ☐ NO

SHIM
0.5 /mm

DRIVE SHAFT
☒ 58mm ☐ 59mm ☒ BEARING ☐ BLADE

0 1/4 HUBBY **-3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 HUBBY**

#107702 Chassis Droop Gauge Blocks #107712 Chassis Droop Gauge **5.4** /mm **DOWNSTOP**

The diagram shows the rear suspension assembly with the following components and settings:

- REAR CAMBER:** 2 /deg. (Left = Right)
- BODY POST:** VERTICAL ☒ (marked with a red X), HORIZONT. ☐
- REAR SHOCK POSITION:** 2 (indicated by a red dot on the shock absorber)
- SHIM:** 0.5 /mm (indicated by a red dot on the shim)
- REAR HUB:** HARD ☒ (marked with a red X), GRAPHITE ☐ (marked with a red X), ALU ☐
- SHIM:** 0.5 /mm (indicated by a red dot on the shim)
- DRIVE SHAFT:** 52mm ☐ (marked with a red X), 54mm ☒ (marked with a red X), BEARING ☒ (marked with a red X), BLADE ☐
- REAR HUB:** 0 1/2 (indicated by a red dot on the hub)
- SHIM:** 4 /mm (indicated by a red dot on the shim)
- DOWNSTOP:** 4 /mm (indicated by a red dot on the downstop)

FRONT **TOP VIEW** **REAR**

1.25
TOE OUT
Left = Right

ACKERMANN
SHIM 0.5 /mm

SHIM /mm

3
TOE IN
Left = Right

DIFF POSITION
UP ☒ DOWN ☐

UPPER ARM
SOFT ☒ MEDIUM STD. ☐

STEERING BRIDGE
YES ☐ NO ☒

HUB OFFSET
STD. ☒ -0.5mm ☐ +0.5mm ☐ SHIM/mm

BRASS WEIGHT FOR MOTOR MOUNT

10 **12**

STEERING PLATE
8.0mm ☐ STD. ☐ 7.5mm ☒

UPPER ARM
SOFT ☒ MEDIUM STD. ☐

HUB OFFSET
STD. ☒ -0.5mm ☐ +0.5mm ☐ SHIM/mm

The diagram illustrates the robot chassis from three perspectives: Front, Bottom, and Rear. Each view includes specific adjustment points and component options.

FRONT VIEW:

- STEER. LOCK:** 27.5 /deg.
- STEER. SHIM:** SIZE 7 /mm
- FRONT BRACE:** YES ☐ NO ☒
- SERVO HOLDER:** FR ☐ RE ☐
- FRONT ARMS:** MEDIUM ☒ HARD ☐

BOTTOM VIEW:

- MOTOR MOUNT:** Graphite ☒ ALU ☐ ALU FLEX ☐

REAR VIEW:

- T-BRACE:** ALU ☒ BRASS ☐
- CHASSIS T-BRACE:** ☒
- REAR ARMS:** MEDIUM ☒ HARD ☐

TOTAL WEIGHT	1335 <small>/g</small>	WEIGHT BALANCE	FRONT 50 %	REAR 50 %
MOTOR	Hobbywing G3 4.5T	TIMING		
ESC	HW XR10 Pro G2S	BATTERIES	Sunpadow 6500	
BODY	Twister Speciale L	WING	Speciale M	

66 /mm

Dimension from body post to window bottom line

BODY POSITION

7th+0+1 /mm

Dimension from body post to upper holder

WING SIDE PLATE

YES ☒ NO ☐

Dimension from edge to surface

65 /mm

Diagram illustrating the correct and incorrect ways to cut a top deck, showing various components and dimensions:

- Top Deck Cutting:** The diagram shows four different cutting methods for a top deck with various components.
- Method 1 (Correct):** Shows a cut with a 1.6mm gap and a 2.0mm gap, resulting in a 1.6mm section.
- Method 2 (Incorrect):** Shows a cut with a 2.0mm gap and a 1.6mm gap, resulting in a 2.0mm section.
- Method 3 (Correct):** Shows a cut with a 2.0mm gap and a 1.6mm gap, resulting in a 2.0mm section.
- Method 4 (Correct):** Shows a cut with a 2.0mm gap and a 1.6mm gap, resulting in a 2.0mm section.
- Labels:** The diagram includes labels for "NONE" and "BEARING" and a "TOP DECK CUTTING" label.

COMMENTS

3.5 degrees toe in on new tires. I tried 8k diff oil, but the rear was too loose. Would try 6k.