Draw an Off-Road Side-by-Side with Roll Cage and Suspension

Original task 1 / independent drawing and calculation

Task 1

Draw a side-by-side with a body box 80 units long and 30 units tall. Place four wheels 40 units in diameter on a ground line. Add a rear hoop and a front hoop connected by two roof tubes. Show one suspension arm per wheel.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

Draw a side-by-side with a body box 120 units long and 50 units tall. Use wheels 60 units in diameter. Add a rear main hoop, a front hoop, two roof tubes, and two diagonal braces at the rear. Show two suspension arms per wheel and a small coil spring.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

Draw a side-by-side with a body box 90 units long and 35 units tall. Place wheels 45 units in diameter. Add a seat, steering wheel, headlights, and a front bumper. Use the x-height convention for small bolt heads on the cage joints.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

Draw a side-by-side with a body box 110 units long and 45 units tall. Use wheels 55 units in diameter. Add a rear hoop, front hoop, roof tubes, and two suspension arms per wheel. Then check your drawing against the rubric and list one improvement.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.