

# TLS TRUCK LOADING PROCEDURES QUICK REFERENCE

**Strap tie-downs over each tire is the standard TLS vehicle securement method.**

Chains may be used by non-domiciled/out of network trucks that **do not have strap capabilities**.

Outboard chain angle (A-pull): **away from** center of vehicle (forward in front, rearward in rear)

Inboard chain angle (V-pull): **toward** center of vehicle (rearward in front, forward in rear)

Model	Front Chain Tie-down Points	Rear Chain Tie-down Points	Chain Angles & Additional Notes	L (in)	H (in)	W (in)	WB (in)	WT (lb)
4Runner	- Tie-down loops below front bumper	- Torque boxes in rear suspension control arm brackets	<u>Inboard only</u> - Face FORWARD if has HOOD PROTECTOR	189.9	74.2	75.8	109.8	4805
86	- Tie-down eyelets in front wheel wells, behind axle	- Torque boxes in frame forward of rear tires	<u>Inboard or outboard</u> - Be careful of inboard angles and contact with frame	166.7	56.1	69.9	101.2	2815
Avalon	- Torque boxes in frame behind front tires	- Torque boxes in frame forward of rear tires	<u>Outboard only</u>	195.9	56.5	72.8	113.0	3638
Camry	- Torque boxes in frame behind front tires	- Torque boxes in frame forward of rear tires	<u>Inboard only</u>	192.7	56.9	72.4	111.2	3572
C-HR	- Tie-down eyelets in front wheel wells, behind axle	- Torque boxes in frame forward of rear tires		171.2	61.6	70.7	103.9	3300
Corolla	- Tie-down eyelets below front bumper	- Torque boxes in frame forward of rear tires	<u>Outboard only</u>	183.1	57.3	69.9	106.3	2885
Corolla HB	- Tie-down eyelets below front bumper	- Torque boxes in frame forward of rear tires	<u>Outboard only</u>	186.4	61.4	70.5	103.9	3197
Corolla iM	- Tie-down eyelets in front wheel wells, behind axle	- Torque boxes in frame forward of rear tires	<u>Inboard only</u>	170.5	55.3	69.3	102.4	2943
Highlander	- Tie-down eyelets on frame behind front tires	- Torque boxes in frame forward of rear tires - If available, rear eyelets beneath SIDESTEP/RUN BD - Do NOT use eyelets below rear bumper	<u>Inboard or outboard</u>	191.5	68.1	75.8	109.8	4861
Land Cruiser	- Tie-down eyelets below front bumper	- Torque boxes in rear suspension ctrl arm brackets - Do NOT use eyelets/loops below rear bumper	<u>Inboard only</u> - Face FORWARD if has HOOD PROTECTOR	194.9	74.0	77.6	112.2	5690
Mirai	- Tie-down eyelets on frame behind front tires		<u>Inboard or outboard</u>	192.5	60.4	71.5	109.4	4075
Prius	- Tie-down eyelets on frame behind front tires	- Torque boxes in frame forward of rear tires - Do NOT use eyelets below rear bumper	<u>Inboard or outboard</u> - Be careful of inboard angles in front	Prius:				
				175.6	58.7	68.7	106.3	3042
				Prius Plug-in:				
				176.3	58.7	68.7	106.3	3207
				Prius v:				
RAV4	- Torque boxes in frame behind front tires	- Torque boxes in frame forward of rear tires - If available, rear eyelets beneath SIDESTEP/RUN BD	<u>Inboard only</u> - Face FORWARD if has HOOD PROTECTOR	181.7	63.0	69.9	109.4	3417
				157.3	56.9	66.7	100.4	2568
Sequoia	- Vertical tie-down loops below front bumper - Do NOT use larger, angled tow loops on some models	- Torque boxes in frame behind rear tires (square, double-walled holes) - Do NOT use round single-walled holes further back - Do NOT use eyelets on Trailer Hitch Receiver	<u>Inboard or outboard</u> <u>Outboard only, if has SKID PLATE or AIR SUSPENS</u> - Face FORWARD if has HOOD PROTECTOR - AIR SUSPENSION units in LOW (Height Ctrl Switch on ctr console), use S-hook without reverse T-hook	205.1	77.0	79.9	122.0	6045
Sienna	- Torque boxes in frame behind front tires	- Torque boxes in frame forward of rear tires	<u>Outboard only</u> - Models with run-flat tires will not have additional spare	200.2	71.3	78.1	119.3	4735
Supra	Soft tie only	Soft tie only	Do not load above the cab. Do not load on lower deck. Behind the cab is okay.	172.5	51.1	73.0	97.2	3397

Model	Front Chain Tie-down Points	Rear Chain Tie-down Points	Chain Angles & Additional Notes	L (in)	H (in)	W (in)	WB (in)	WT (lb)
Tacoma	- Tie-down eyelets and/or loops below front bumper	- Leaf springs, <b>FORWARD END ONLY</b> . Do not attach hook directly to spring. Wrap chain around spring, attach hook to chain or insert hook into frame hole forward of leaf spring. - If available, eyelets on TRAILER HITCH RECEIVER	<u>Inboard or outboard</u> - Face FORWARD if has Bed Mat, Tonneau Cover, Camper Shell, or Hood Protector	Double Cab 4x4				
				212.3	70.8	75.2	127.4	4480
Tundra	- Verticle tie-down loops below front bumper - Do NOT use larger, angled tow loops on some models	- Tie-down eyelets below rear bumper - If available, eyelets on TRAILER HITCH RECEIVER - Do NOT use leaf springs	<u>Inboard or outboard</u> <u>Outboard only, if has SKID PLATE</u> - Face FORWARD if has Bedliner, Bed Mat, Tonneau Cover, Camper Shell, or Hood Protector - Face FORWARD if gas-cap door is not covered with Rapgard to prevent wind opening/damage	Double Cab 4x4				
				228.9	76.0	79.9	145.7	5240
				Crew Max 4x4:				
Yaris	- Tie-down eyelets in front wheel wells, behind axle	- Torque boxes in frame forward of rear tires	<u>Inboard or outboard</u> - Load all models facing FORWARD to avoid wind damage to heat shield	Liftback:				
				154.6	59.6	66.7	98.8	2271
				Sedan:				
Yaris iA	NO Chain Tie-down Points			171.1	58.5	66.7	101.2	2385
Lexus CT	- Tie-down eyelets on frame behind front tires	- Torque boxes in frame forward of rear tires	<u>Inboard or outboard</u> - Do NOT face fwd over cab, or front spats hit wheel stops - For rear outboard chain angles, avoid brake lines	170.1	56.3	69.5	102.4	3130
Lexus ES	- Torque boxes in frame behind front tires	- Torque boxes in frame forward of rear tires	<u>Inboard only</u>	195.9	56.9	73.4	113.0	3828
Lexus GS	- Tie-down eyelets on frame behind front tires	- Torque boxes in frame forward of rear tires	<u>Outboard only</u>	190.7	57.3	72.4	112.2	4112
Lexus GX	- Tie-down loops below front bumper	- Torque boxes in rear suspension control arm brackets	<u>Inboard only</u>	192.1	74.2	74.2	109.8	5340
Lexus IS	- Tie-down eyelets on frame behind front tires	- Torque boxes in frame forward of rear tires	<u>Inboard only for hardtops</u> <u>Outboard only for convertibles</u>	184.3	56.3	71.3	110.2	3593
Lexus LC500	- Tie-down eyelets on frame behind front tires	- Torque boxes in frame forward of rear tires	<u>Do not drive into position behind tractor</u>	187.4	53.0	75.6	113.0	4420
Lexus LS	- Torque boxes in frame behind front tires	- Torque boxes in frame forward of rear tires	<u>Outboard only</u> - Low underbody clearance. Minimize all load angles. Watch breakover angle. - Avoid contact with underbody covers.	460:				
				198.0	58.1	73.8	116.9	4730
				460L / 600hL:				
Lexus LX	- Tie-down eyelets below front bumper - Do NOT use horizontal tow loops above eyelets	- Torque boxes in rear suspension control arm brackets	<u>Inboard only</u> - Set adj-height suspension to LOW and OFF, using Height Control Switch on ctr console	202.8	58.3	73.8	121.7	5049
				200.0	75.2	78.0	112.2	5895