



# FR500S

## Fastener Torque Sheet

Fastener	Part Number	Torque		One Time?	Notes
		Nm	lb-ft		
<b>Steering</b>					
Steering Wheel Hub Adapter Center Bolt	W705985-S309	55	41	Y	
Steering Wheel-to-Quick Release Bolts			6		
Quick Release-to-Adapter Bolts/Nuts			6		
Steering Column-to-shaft bolt	W704980	25	18	Y	
Steering Column Nuts	W705047	18	13		
<b>ABS</b>					
ABS Module - Valve Body		3	27 in-lb		
Brake tube-to-HCU		17	13		
HCU bracket-to-frame		25	18		
HCU bracket-to-HCU		11	8		
Wheel Speed Sensor Bolt		15	11		
<b>Front Brakes</b>					
Front Brake Caliper Bracket-to-Spindle bolts	W710233-S439	115	85		
Front Brake Caliper-to-Bracket Bolts	M12x1.75x70 SHCS		80		
Front Brake Rotor-to-Hat Bolts	M5x20mm		62 in-lb		Use Threadlocker
Front brake caliper flow bolt - Goodridge		20	15		
Front brake caliper flow bolt copper washer	W712362	-	-		
Front brake tube fittings-to-hose		17	13		
Front brake flexible hose bracket bolts	N802191	20	15		
Front Brake Spindle Duct bolts	W500020	20	15		
<b>Rear Brakes</b>					
Rear brake caliper anchor plate bolts	W705821/W704797	103	76		
Rear brake caliper guide pin bolts		33	24		RH-top then bottom; LH-bottom then top
Rear brake caliper bleeder screw		10	89 in-lb		
Rear brake caliper flow bolt - Goodridge		20	15		
Rear brake caliper flow bolt copper washer	W712362	-	-		
Rear brake tube fittings-to-hose		17	13		
Rear brake hose bracket bolts	N802191	15	11		
Rear anti-moan bracket U-bolt nuts	W520112	35	26		
Rear brake caliper support bracket-to-axle bolts		68	50		
Rear brake disc shield bolts	W500020	20	15		
<b>Misc Brakes</b>					
Master cylinder brake tube fittings		17	13		



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<b>Front Suspension &amp; Steering</b>					
Lower arm forward bolt	W709865	175	129		
Lower arm rearward bolt	W710141	-	-		
Lower arm rearward nuts	W520215	185	136		
Lower ball joint bolt	W711123	-	-		
Lower ball joint nut	W520214	103	76		
Strut-to-spindle bolts	W709870	200	148	Y	
Strut-to-spindle flag nut	W711091	-	-	Y	
Wheel hub nut	F3LY-3B477-A	300	221	Y	
Strut rod top nut/jam nut			48		DO NOT USE POWER TOOLS! To tighten the strut rod nuts, use a 19mm box wrench on the jam nuts (deep offset required for the lower nut), and a 10mm socket, with a torque wrench in reverse, on the rod hex
Camber plate - Caster nut (10mm)			26		
Camber plate - Camber nut (8mm)			20		
Stabilizer bar bracket nuts	W520213-S440	70	52		
Stabilizer bar link upper nut (to strut)	W712836-S440	115	85		
Stabilizer bar link lower nut (to bar)	W712836-S440	115	85		Factory uses N807144-S440 (shorter)
Steering gear bolts	W710909	115	85		
Steering column coupling-to-gear bolt	W704980	25	18	Y	
Inner Tie Rod		120	89		
Tie-rod jam nut		55	41		
Tie-rod end nuts	W705606	80	59	Y	
Steering line clamp plate bolt	W707622	23	17		
Steering gear o-ring seal #1	3F886-AA			Y	
Steering gear o-ring seal #1	3F886-BA			Y	
Steering pressure line bracket bolts (gear & c/m)	W505255	9	80 in-lb		
<b>Rear Suspension</b>					
Fuel tank strap bolt	W710947	52	38		
Lateral stiffener bar nut	W520214	115	85		
Lateral stiffener bar flag bolt	W710693	-	-		
Lateral stiffener bar-to-body bolts	W711331	62	46		
Lower arm front bolt	W704886	175	129		
Lower arm front nut	W710089	-	-		
Lower arm rear bolt	W704888	175	129		
Lower arm rear nut	W704991	-	-		
Panhard rod bolts	W704886	175	129		



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Panhard rod flag nut RH	W710022	-	-		
Panhard rod flag nut LH	W710689	-	-		
Shock clevis-to-body nut	1/2"-13 Nylock		85		
Shock upper-to-clevis bolt	1/2"-13x2.5"	-	-		
Shock upper-to-clevis nut	1/2"-13 Nylock		85		
Shock lower bolt	1/2"-13x2.5"	-	-		
Shock lower nut	1/2"-13 Nylock		85		
Swaybar Link Upper Nut/Bolt			54		
Swaybar Link Bushing Cover			6		Use Blue Loctite
Swaybar Pivot Bushing Bracket			36		
Upper arm bracket forward bolt	W708795	175	129		
Upper arm bracket rearward bolts	W711075	115	85		
Upper arm-to-upper arm bushing nut	W520215	175	129		
Upper arm-to-upper arm bushing bolt	W710443/W710051	-	-		
<b>Misc Suspension</b>					
Wheel nuts	M-10120G	133	98		
<b>Axle</b>					
Anti-lock sensor bolt		7	62 in-lb		
Differential bearing cap bolts		105	77		
Differential pinion shaft lock bolt (Torsen)			25		
Differential ring gear bolts		105	77		
Differential housing cover bolts (Ford Racing)			22		
Bearing Cap Preload Bolts			8		
Bearing Cap Preload Lock Nuts			22		
<b>Driveshaft</b>					
Center bearing bolts		48	35		
Driveshaft constant velocity (CV) joint bolts		55	41		
Driveshaft flange bolts		103	76		
<b>Transmission &amp; Clutch</b>					
Pressure Plate Bolts		45+60°	33+60°		
Clutch slave cylinder bolts		12	9		
Drain plug		27	20		
Extension housing bolts		48	35		
Filler plug		25	18		

