



TABLA DE TORQUES LIBRA / PIE

Motores GASOLINA

Hacemos Parte de su Motor

MOTOR	CULATA (Lb./Pie)	BANCADA (Lb./Pie)	BIELA (Lb./Pie)	COMPRESIÓN (Bar)	ALT. CULATA (New/Min (mm))	MOTOR	CULATA (Lb./Pie)	BANCADA (Lb./Pie)	BIELA (Lb./Pie)	COMPRESIÓN (Bar)	ALT. CULATA (New/Min (mm))	MOTOR	CULATA (Lb./Pie)	BANCADA (Lb./Pie)	BIELA (Lb./Pie)	COMPRESIÓN (Bar)	ALT. CULATA (New/Min (mm))	MOTOR	CULATA (Lb./Pie)	BANCADA (Lb./Pie)	BIELA (Lb./Pie)	COMPRESIÓN (Bar)	ALT. CULATA (New/Min (mm))
CHEROKEE/WRANGLER 4.0L 242 OHV	85	80	35	8.3 / 10.3	88	CLARUS/CREDOS/CARENS 1.8L 78 16V 96/06	37, (-360°), 30+90°+90°	30, Aflojar, 15+90°+60°	37	13.3	134/133.7	TIDA/VERSA/SENTRA/QASHQAI MR18DE/MR20DE DOHC 16V 05/	30+100°, Aflojar 30+100°+100°	25+60°	20, (-360°)+15		130.96/130.90	V40 1.6L B4164-S2 00/04	45+130°	M10 = 33+90° M8=18, M7=12	15+90°	13/15	
GRAND CHEROKEE 4.7L V8 267 SOHC	20+90°+90° Dist.=10Lb./Pie	Tint.=25+90° Text.=40	15+110°	Min=7	116.5	CARENS 1.8L T8D 99/02	37, (-360°), 30+90°+90°	30, Aflojar, 15+90°+60°	37	13.3	132	XTRAIL 2.0L QR20DE 01/07	72, (-360°) 32+80°+90°	M10=30+60° M8=18	15+90°			S40 1.6L B4164-S3 04/07	22+90°	SUSTITUIR CONJUNTO	SUSTITUIR CONJUNTO	13/15	
GRAND CHEROKEE 5.2L 318 MPFI 92/	95	45	45	Min=7		CERATO 2.0L G4GC CVT 04/07	M12=24+65°+65° M10=22+65°+65°	25+60°	39	14.2		MAXIMA 2.0L VQ20DE 00/04	72, (-360°) 32+90°+90°	28+90°	15+90°	12.75		S40 2.0L B4204-S2 00/04	45+130°	M10 = 33+90° M8=18, M7=12	15+90°	13/15	
GRAND WAGONER 5.9L 360 CID	105	85	45	Min=7		MAGENTIS/OPTIMA 2.0L 01/06	47, (-360°), 15+90°+90°	18+90°	16+90°	12/13		CABSTAR 2.0L NA20S 92/94	60, (-360°), 60	40	12+65°	10/12		S40 2.4L B5244-S4 03/07	45+130°	M10 = 33+90° M8=18, M7=12	18+100°	13/15	
NEON 2.0L 00/04	50+90°	M8 = 25 M11 = 60	20+90°	Min=12		SPORTAGE 2.0L FE DOHC 16V 95/00	64	65	50	8/11.2	134/133.7	SENTRA/STANZA/200 SX SR20DE DOHC 96/01	58, (-360°) 30+90°+90°	28+30°	12+60°	10.8/12.8	137/136.6	YARIS/ECHO 1MZ-FE/2NZ-FE 99/07	22+90°+90°	16+90°	11+90°	11.2/15	
LEBARON 2.5L SOHC Vin W 86/93	45+90°, Reapretar 65+90°	40+30°	30+90°		105/104.5	SPORTAGE 2.0L G4GC 04/07	M12=22+65°+65° M10=18+65°+65°	22+60°	37	12.7/14.2		URVAN/PICK-UP 720 2.2L Z22S 83/87	50	60	30	8.9/12	98.9/98.7	YARIS 1.3L 2Z-FE 02/06	25+90°+90°	44	11+90°	11.2/14.6	
RAM 1500 /MAGNUM 3.9L 239 Vin X 92/	105	85	45		117.6	SOLENTO/SONATA 2.4L G4JS DOHC 02/06	47, (-180°) 20+90°+90°	18+90°	15+90°	12	132	NAVARA/D22(TERRANO/R20)/ VANEET 2.4L M24E SOHC 89/99	58, (-360°) 25+90°	38	12+60°	13.3	99/98.6	STARLET/COROLLA/TERCEL 2E 90/93	36+90°	42	30	10/12.7	
RAM 2500 3500 3.7L 345 HEM I / OHV 03/	40+90° M8 = 25	20+90°	15+90°			SPORTAGE 2.7L G6BA 04/07	18+60°+45° Caliente, Enfrío, Aflojar, 18+60°+45°	M10 = 24+90° M8 = 14+90°	15+90°	12.7/14.2		PICK-UP/NAVARA (D22)/FRONTIER M24E DOHC 02/07	58, (-360°) 25+90°	38	12+60°	10.3/12.3	126.5/126	COROLLA/TERCEL 3E SOHC 12V 88/94	33+90°	45	35	127.38/127	
RAM 150/250/350 HEMI V8 360 MPFI/TB	90+90°	65+90°	15+90°			SORENTO 3.5L G6CU DOHC 02/06	65	50	25	8.5/12	90.5/90.2	MURANO/ALTIMA/TERRANO 3.5L VQ35DE DOHC 24V 01/07	72, (-360°) 32+90°	M10=28+90° M8=16	15+90°	9.8/12.8	126.5	COROLLA 1.3L 4E-FE 97/02	33+90°	42	30	9.9/12.8	
RANGER 2.0L 122 Vin K 83/98	90	90	35		94.6	MAZDA 2 1.4L FXJA/B DOHC 02/ MAZDA 2 1.6L FXJA/B DOHC 02/	22+90°	22+90°	SUSTITUIR CONJUNTO BLOQUE CIGÜENAL	SUSTITUIR CONJUNTO BLOQUE CIGÜENAL		ALTIMA/FRONTIERA/TRAIL 2.5L QR25DE DOHC 02/08	32, Aflojar 32+90°+90°	M10=30+60° M8=18	15+90°	Min=10.6	129.5	COROLLA 1.3L 4E-FE 97/02	33+90°	42	30	9.9/12.8	
TAURUS/RANGER 2.5L 153 OHV 86/90	75	65	25		75	MAZDA 3 1.6L Z6	L.Max=130.2 mm 16+90°+90°	Int.=20+45° Ext.=18	L.Max=48mm 20+90°	10.3/14.7		PATIF/FRONTIERA/MAXIMA X-TERRA/ALTIMA VQ35E SOHC 07/05	45, (-360°), 25+90°	70	12+60°	8.9/12	107/106.6	LITE ACE 1.5L 5K 85/96	50	50	37	9.3/12.3	
TAURUS/RANGER 3.0 V6 183 Vin U 12v 81/99	25+95°	65	30		92	MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	12/17.2		MAXIMA GX 3.0L VQ30DE DOHC 00/04	72, (-360°) 33+90°+90°	28+90°	15+90°	12.75	126.5/126	CARINA/COROLLA 1.6 4A-C5OHC 86/87	45	45	35	86.5/86	
ESCAPE 3.0L MEBA Vin I DOHC 24v 01/06	33+90°, Aflojar, 93+90°	70, Placa de Apoyo=53	15+90°		92	MAZDA 6 3.0L V6 DOHC 02/09	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		PATIFR/FRONTIER/NAVARA X-TERRA/ALTIMA VQ35E SOHC 96/06	43, Aflojar 22+60°	74	12+65°	107	CARINA/COROLLA 1.6 4A-GE16V 84/89	25+90°+90°	45	29+90°	10/12.7	116/115.7	
EXPLORER 4.0L OHV 98/02	26+90°+90° M8=25	70, Placa de Apoyo=53	15+90°			MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		MURANO/ALTIMA/TERRANO 3.5L VQ35DE DOHC 24V 01/07	72, Aflojar 32+90°	M10=28+90° M8=16	15+90°	9.8/12.8	126.5	COROLLA 1.6L 4E-FE 87/95	47	43	29+90°	10/12.7	116/115.7
EXPLORER 4.0L OHV 99/02	53+90°	53	15+90°			MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		PATHFINDER (R51) 4.0L VQ40DE 04/07	72, (-360°) 28+90°+90°	M10=28+90° M8=16	15+90°	9.7/12.7		COROLLA 1.3L 4E-FE 97/02	33+90°	42	30	9.9/12.8	
PICKUP/LORD 4.0L 330 TRITON SOHC MPFI/TB	22+95°+95°	32+95°	30+100°		119.8	MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		PATROL (Y60) 4.2L TB42E 92/98	75, (-360°) 55	55	125	54		COROLLA 1.3L 4E-FE 97/02	33+90°	42	30	9.9/12.8	
ASTRO MINI BLAZER 4.3L L84 OHV 85/90	65	80	20+60°		77.8	MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		TRAILER (V60) 4.2L TB42E 92/98	75, (-360°) 55	55	125	54		COROLLA 1.3L 4E-FE 97/02	33+90°	42	30	9.9/12.8	
ASTRO VAN/MINI BLAZER/S10 4.3L L85 VORTEC Vin WX / OHV 99/05	Largos= 22+75° Med.= 22+65° Cortos= 22+55°	70	20+70°		77.8	MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		LUV 1.6 4Z21 / G161Z	75	70	33			COROLLA 1.3L 4E-FE 97/02	33+90°	42	30	9.9/12.8	
CORSA 1.3L C13N	20+60°+60°+30°	36+60°	18+30°		95.25	MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		WFR 2.0 4Z21 / G200Z	75	70	43	7.8/11.7	93.3/92.8	COROLLA/CELICA/CARINA E/AVENSIS 1.8L 7A-FE 92/03	22+90°+90°	45	18+90°	9.8/12.3	
CORSA/CHEVY 1.6L C16XE	20+60°+60°+30°	36+60°	18+30°		135	MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		LUV 2.0L C22NE	45+90°+30°	75	35			MR2/CELICA/COROLLA 1.8 1ZZ-FE 98/07	36+90°	33+90°	15+90°	10/13	114.8
OPTRA/ZAFIRA 1.8L X18 DOHC	20+90°+90°+45°	35+45°+15°	18+30°	13/17		MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		LUV 2.3L 4ZD1	73	72	43	8.5/12	93.3/92.8	COROLLA 1.8L 2ZZ-GE 01/05	L.Max = 148.5 mm 26+90°+90°	ØMin = 7.3 mm 33+45°+45°	22+90°	10/13	103.3/13
CORSA EVOLUTION C18NE	20+60°+60°+30°	36+45°	18+30°		96	MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		TROOPER 2.6L 4ZE1	75	75	45	7.8/11.7	93.2/92.7	COROLLA 1.8L 2ZZ-GE 01/05	L.Max = 148.5 mm 26+90°+90°	ØMin = 7.3 mm 33+45°+45°	22+90°	10/13	103.3/13
ASTRA/ZAFIRA 2.0L 2ZC SOHC	20+60°+60°+30°	36+45°	18+30°		134	MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		RODEO/TROOPER 3.2 6VDI SOHC	M8 = 16, M11 = 47	Vert. = 22+60° Lat. = 30	40	8.9/12	104.8/104.6	CAMRY/SUPRA/VISTA 2.0L 2S-E SOHC	55	50	40	9.5/12.5	101/100.7
MATIZ/DAMASCIO 2.0L FRCV/DOHC	60+60°	45+25	25	11/13		MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		DMAX 3.5L 6VE1 DOHC 24V	47	Vert. = 22+60° Lat. = 30	40	Min=10.2	133	RAV 4/PICONI/SPORT VAN 2.0L 2S-E SOHC	35+90°	44	18+90°	9.5/12.8	
MATIZ 1.0L F12S3 04/	60+60°	45+25	25	11/13	125/124.7	MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		CULTUS FORZA/SWIFT G10	45	35	25	12/13.5	125/124.7	HIACE 2.0L 1RZ 82/95	32+90°+90°	29+90°	18+90°	9.0/12.5	
KALOS/OPTIMA/LACETTI/NUBIRA 1.4L F14D3/S3 DOHC 03/06	18+70°+70°+30°	36+45°+15°	18+30°	11/13	96.1/95.9	MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		ALTO/WAGON R+ K10A 16V / K12A	35, Aflojar, 45	Int. = 43 Ext. = 18	25	9.5/12.5		CAMRY/CELICA 2.0L 5S-FE DOHC 90/01	35+90°	44	18+90°	10/12.5	126/125.8
CELIO/ESPERO/NEXIA/RACER G15MF	18+60°+60°+30° Calentar 80°C, +30°+50°	35+60°	18+30°	11/13	96/95.7	MAZDA 6 2.0L LF DOHC 03/06	L.Max=146.5 mm 35+90°+90°	L.Max=111.3 35+180°	L.Max=46mm 25+90°	10.2/14.3		ALTO/WAGON R+ K10A 16V / K12A	35, Aflojar, 45	Int. = 43 Ext. = 18	25	9.5/12.5		4 RUNNER/HILUX 2.2L 4Y-EC 88/00	65	60	36	9.5/12.5	112/111.5
LANOS 1.5L A15MF SOHC 97/	18+60°+60°+30° Calentar 80°C, +30°+50°	35+60°	18+30°	11/13	133.97/133.9	LANCER CBI/CB2/MIRAGE 1.3L 4G13 97/	60	40	M8=25 M7=15+90°	11.6/16		CULTUS/FORZA/GEQ/SJ 413 G18 SOHC	50	40	26	11/14	95.3/94.9	4 RUNNER/HILUX 2.4L 2ZR 88/99	58	76	51	10/12.5	96.4/96
KALOS/AVEO/LACETTI/NUBIRA 1.6L F16D3/DOHC 03/05	18+60°+60°+30° Calentar 80°C, +30°+50°	35+60°	18+30°	11/13	133.97/133.9	LANCER MIRAGE/PROTON 1.5L 4G15 12V 93/97	55	37	M8=25 M7=15+90°	107/106.7		STEM/SIDEX/KK/ESCUDO/VITARA JS.JK G16A/B/KV 16V SOHC	52	40	26	11/14	120/119.6	PREVIA 2.4L 2TZ-FE 90/00	30+90°+90°	30+90°	22+90°	8.8/12.3	135
ESPERO/ARANOS 2.0L C20 LE/NE	18+60°+60°+30° Calentar 80°C, +30°+50°	45+50°	25+45°	11.5 / 13		LANCER 1.6L 4G18 03/37	37, Aflojar 360° 15+90°+90°	25+32°	14+90°	12/17		SIDEX/KK/VITARA/TRACKER G16A BV	40, Aflojar, 50	40	26	12/14	95.2/94.9	CAMRY 2.5L 2VZ-FE 83/91	25+90°+90°	45+90°	18+90°	10/12.3	122.2/121.8
MATIZ/DAMASCIO 2.0L FRCV/DOHC	60+60°	45+25	25	11/13	125/124.7	LANCER 1.6L 4G18 03/37	55, Aflojar 360° 15+90°+90°	25+32°	14+90°	12/17		SWIFT/GRAND VITARA M16A 16V VVT 05/	30+60°+60° M8 = 18	Int. = 37+60° Ext. = 10	11+45°+45°	12/14		4 RUNNER 3VZ-E SOHC 88/96	32+90°+90°	45+90°	18+90°	10/12.5	135/134.6
MATIZ 1.0L F12S3 04/	60+60°	45+25	25	11/13	125/124.7	LANCER 1.6L 4G18 03/37	75, Aflojar 360° 15+90°+90°	25+32°	14+90°	12/17		VITARA 2.0 H20A 95/00	77	M10 = 43 M8 = 17	33	11/14		CAMRY 3.0L 3VZ-FE DOHC 91/96	25+90°+90°	45+90°	18+90°	10/12.5	121.92
KALOS/OPTIMA/LACETTI/NUBIRA 1.4L F14D3/S3 DOHC 03/06	18+70°+70°+30°	36+45°+15°	18+30°	11/13	96.1/95.9	LANCER 1.6L 4G18 03/37	75, Aflojar 360° 15+90°+90°	25+32°	14+90°	12/17													