TABLA DE TORQUES LIBRA / PIE Motores DIESEL

	VEHICULO/MOTOR	CULATA (Lb.Pie)	BANCADA (Lb.Pie)	BIELA (Lb.Pie)	COMPRESIÓN (Bar)	ALT. CULATA New/Min (mm)
TOYOTA	COROLLA 1.8D ***1C***	60	75	47	25/30	132.8
	CARINA/COROLLA 2.0D ***2C***	30+90°+90°	75	47	25/30	132.8
	RAV4 2.0D ***3S-FE*** 94/00					
	PICNIC/SPORTS VAN 2.2D ***3C-TE***	32+90°+90°	75	47	25/30	
	CRESSIDA/HIACE 2.2D ***L***	90	90	40	20/32	101.98
	HIACE/HILUX 2.4D ***2L***	60+90°+90°	77	40+90°	20/32	
	4RUNNER/HILUX 2.4D ***2L-T***	60+90°+90°	75	25+120°	20/30	
	FORTUNER/HILUX D/DYNA 150 TD 2.5D ***2KD-FTV*** 05/	62-90°+90°+90°	37+90°	26+90°	27	
	DYNA 2.8D ***3L***	60+90°+90°	75	40+90°	20/32	
	LANDCRUISER/PRADO 3.0D D-4D ***1KD-FTV*** 04/	63+90°+90°	37+90°	26+90°	22/27	
	LANDCRUISER/4RUNNER 3.0D ***1KZ-T*** 93/96	29+90°+90°	36+90°	22+90°	19.6/30.4	
	LANDCRUISER/PRADO/4RUNNER 3.0D ***1KZ-TE*** 96/02	30+90°+90°	37+90°	26+90°	20/30	
	COASTER/DYNA 3.0D ***B*** 74/	36+90°+90°	95	55		95.0
	LANDCRUISER 3.5D ***3B*** 85/89	88	144	88	29.5	95.0
	DYNA 3.4D ***13B-T***	87	145	87	20/30	
	LANDCRUISER 3.5D TURBO ***15B-T*** 85/	87	145	87	29.5	
	DYNA 3.7D ***14B***	36+90°+90°	147	50+90°	20/30	
	LANDCRUISER 4.0D ***12H-T*** 88/90	84	100	65	19.6/29.4	
	LANDCRUISER 4.0D ***2H 81***/	85	100	65	20/28	88.0
	DYNA 4.1D ***15B-FT***	35+90°+90°	147	50+90°	20/30	
	LANDCRUISER 4.2D ***1HZ*** 90/95	50+90°+90°	76+90°	27+90°	36	
NISSAN	SUNNY N12/SENTRA B11 1.7D ***CD17***	80	38	27	30/32	138~138.3
	ALMERA N15 2.0D ***CD20***	30+80°	58	30	25/32	
	PRIMERA P11 2.0D ***CD20T*** 99~02	28+90°+90°	58	11+60°	25/32	
	BLUEBIRD/VANETTE 2.0D ***LD20***/***LD20-II***/***LD28***	90	60	36	30/32	89.5
	PICKUP 720/D21/E23 ***SD22***/***23***/***25*** OHV 81/	Largos=95 Cortos=40	125	40	25/30	90/89.7
	ALMERA 2.2D Di ***YD22 DDT*** 00/04	28+90°+90°, (-360°) 33+90°+90°	22+90°	22, (-360°) 15+60°+60°	25/31.4	
	X-TRAIL 2.2D dCi ***YD22 DDTI*** 03/07	32+90°+90°, Aflojar (-360°), reapriete	22+90°	22, (-360°) 15+60°+60°	29.9	
	PICKUP NAVARA (D40) 2.5D ***YD25DDTi*** 02/07	30+90°+90°, Aflojar (-360°), reapriete	20+90°	22-360°, 15+60°+60°	25/31	
	TERRANO/URVAN E24/NAVARA (D22) ***TD23,25,27 T***/***Ti*** 88/	45+90°	130	60	25/30	90.1/89.9
	PATROL(Y61) 2.8D ***RD28ETI*** 98/00	22+100°, (-360°), Reapriete, M8=16	58	33	24.5/30.4	140
	TERRANO II(R20) 2.7D ***TD27 Ti*** 96/07	42+90°	130	55	24.5/29.4	
	MT3000/CABSTAR 3.0Di ***BD30*** 93/	45+90°	130	60	25/34	
	TERRANO II(R20) 3.0D ***ZD30 DDTi*** 02/07	Fase 1: 36-360° Fase 2: 75 - 360° Fase 3: 30+90°+90°	Torn.Int=130 Torn.Ext=35	60	25/30	
	PATROL ***SD33***/***33T***	Largos=95 Cortos=40	127	41	25/30	90/89.7
	CABSTAR SERIE 1100 UD ***FD33***/***35T*** 86/	110	125	85	25/30	89.9~90.9
	PATROL Y60/UD1400 4.2D ***TD42***/***T***/***OHV*** 90/	45+90°	130	60	25/30	89~91/88.7
	CIVILIAN 4.2/4.6D ***FD42***/***46T***	137	127	83		90.1/89.7
	TRUCK 150-175 HP 5.7D ***FD 6T***	110	155	89		
	TRUCK 180-200 HP 6.9D ***FE 6T***	130	125	87		90/89.7
MITSUBISHI	COLT/LANCER 1.8D ***4D65***	85	50	38	19/27	
	GALANT/SPACE WAGON 1.8D ***4D65T***	90	50	38	19/27	
	LANCER/SPACE WAGON, RUNNER 2.0D ***4D68*** 91/98	Fase 1: 65 - 360° Fase 2: 30+90°+90°	20+90°	15+90°	26/35	
	CANTER T35/T46/T55 ***4D55***/***4D56*** 87/98	82	62	35	23/30	***4D55***=94.1/93.8 ***4D56***=94.1/94
	CHALENGER/L200/TRITON 2.5D ***4D56***/***56T*** 97/06	90	60	35	22/30	
	L200/TRITON 2.5D ***4D56 Di-D*** 2 006/	Fase 1: 60 - 360° Fase 2: 22+90°+90°	30+35°	20+45° Aflojar 20+92°	28/31	
	SHOGUN/PAJERO/MONTERO 2.8D ***4M40T***	Fase 1: 75 - 360° Fase 2: 38+90°+90° M8=18	15+90°+90°	38+90°+90°	23/30	
	SHOGUN/PAJERO/MONTERO 3.2D Di-D ***4M41*** 00/71	Fase 1: 75 - 360° Fase 2: 36+90°+90° M8=42	15+90°+90°	36+45°+45°	28/31	
	CANTER T /ROSA 3.3D ***4D30***/***A***	130+90°	130	76		95/94.5
	CANTER T /FE19,649,659/ INDUSTRIAL 3.9D ***4D34-2A***/***T2***	145+90°	59+90°	29+90°		95/94.6
	BUS FK 115D/415D/425D 6.6D ***6D14***	130	130	76		95.1/94.6
MAZDA	E-SERIES 2.2D ***R2***/***RF***	Fase 1: 22 - 90° Fase 2: 22+90°+90°	65	50	26/29	134.36
	XA,XB,ZB	Fase 1: 88 - 90° Fase 2: 88	85	45		82.6
	323 (BG) 1.7D PN 89/94	Lmax.=114.5mm 22+90°+90°	52	11+90°	26/29	
	E-SERIES 2.7D ***S2*** 84/	80	86	55	27/30	
	TURBO 4.5D	43+90°+90°	80	65		
	626(GD) 2.0D ***RF-N***	22+90°+90°	63	50	27/30	134.36
	B-SERIES BT50 2.5D ***WL-T***	22+90°+90°	60, Aflojar 35+90°	25+90°	30	
	T3500/TITAN ***SL***	43+90°+90°	77	65		125.0
HYUNDAI	ELANTRA/SANTAFE/TRAJET /TUCSON 2.0D CRDI ***D4EA***	37+120°+90°	***M15***=24+120° ***M12=28***	18+90°	30	
	GALLOPER/STAREX 2.5D TURBO ***D4BH*** 98/	85	60	35	24/27	
	H100/GRACE/PORTER 2.5D ***D4BX*** 93/98	85	60	35	24/27	
	H100/GRACE/PORTER 2.5D ***D4BF*** 98/07	85	60	35	24/27	
	H100 2.5D ***4D56***/***4D56T***	90	60	35	22/30	***4D56*** = 94.1/94
	H1/H200/STAREX 2.6D ***D4BB*** 97/07	92	62	35	24/27	
	TERRACAN 2.9D CRDi ***J3*** 2001/	Largos=25+45°+70° Cortos=25+40°+45°	55+60°	50, Aflojar 22+90°	30	

	VEHICULO/MOTOR	CULATA (Lb.Pie)	BANCADA (Lb.Pie)	BIELA (Lb.Pie)	COMPRESIÓN (Bar)	ALT. CULATA New/Min (mm)
ISUZU	ISUZU 2.2D ***C223***	65	125	65	30	92/91.5
	CAMPO/ELF 2500 2.5D ***4JA1*** 89/	76-90°+90°	132	65		
	RODEO/DMAX 2.5D ***4JA1T*** 97/02	36+75°+75°	123	65	22/31	
	N-SERIES 2.8D ***4JB1***/***4JB1-T*** 96/04	36+75°+75°	123	65	22/31	
	RODEO/DMAX 3.0D ***4JH1-TC*** 03/07	36+75°+75°	123	22+60°	22/31	
	N-SERIES 3.0D ***4JG2*** 96/99	36+75°+75°	123	22+60°	22/30	
	NPR 3.8TD 3.9D 4BD2-TC 96/99	65+120°	174	29+90°	22/31	90/89.7
	N-SERIES 4.3D ***4HF1*** 96/04	108+45°	97+60°	29+60°+30°	22/31	90/89.7
	NPR / NKR 4.5D ***4HG1*** 96/04	Largos=108+45° Cortos=20	M14=97+60° M10=27+50°	29+60°+30°	22/31	119.0
	N-SERIES 4.7D ***4HE1*** 96/04	108+45°	97+60°	29+60°+30°	22/31	119.0
	FSR/FST/FTS/FVR 5.8D ***6BD1***/***T***	Nuevo=83 Usado=70	174	87	22/31	90/89.7
	FSR/FSS 6.5D ***6BG1***/***T***	65+90°	174	28+60°		90/89.7
	FTR/FVR/FSR 7.1D ***6HE1***	109+45°	95+45°	29+60°+45°		119.0
	ISUZU 580/660 12.0D/13.7D ***6RA1***/***6RB1***	145+60°	280	75		
	CORSA DIESEL 1.7D ***4EE1***	30+75°+75°	36+45°	26+45°	22/31	
KIA	NEW SPORTAGE/CARENS 2.0D CRDi ***D4EA*** 02/	40+120°+120°	M15=24+120° M12=28	18+90°	29.4	
	SPORTAGE 2.0D TCI RF 01/04	22+90°+90°	65	50	27/30	
	BESTA/CERES 2.2D ***HW*** 97/	89	82	60		134.0
	SORRENTO 2.5D CRDi ***D4CB*** 02/	36+120°+90°	100	45, Aflojar 25+60°	29.4	
	CERES 2.7D ***RFN*** 84/	90	80	60		
	PREGIO/BESTA K2700 2.7D ***J2***/***OHV*** 98/	T. Largo= 158 mm T. Corto=123 mm 120	57, Aflojar 32+100°	50, Aflojar 22+90°	27/30	
	SEDONA/CARNIVAL 2.9D CRDi ***KJ*** 01/	Largos= 25+45°+70° Cortos=25+40°+45°	55+60°	50, Aflojar 22+90°	29.4	
	SEDONA/CARNIVAL NEW SPORTAGE 2.9D TDi ***J3*** 99/	60	55+60°	50, Aflojar 22+90°	29.8	
	PREGIO/BESTA K3000 3.0D ***JTA***/***JIA*** 00/	120	120	60		
ASIA	ROCSTA 2.2 ***R2*** 93/00	22+90°+90°	66	55	27/30	
	TOPIC/HI TOPIC 2.7D ***S2***/***XB*** 93/	80	82	60	27/30	
	COMBI TURBO 3.7D ***VM39B*** 94/	80	82	60		
DAIHATSU	DELTA 2.5D ***DG*** 77/83	76	80	55	28	
	ROCKY/FOURTRAK 2.7D ***DL*** 84/93	95	73	55	32	
	DELTA 2.8D ***B*** 72/80	36+90°+90°	90	55		
	DELTA 3.4D ***13B*** 84/88	36+90°+90°	145	36+90°+90°		95.0
	DELTA 3.7D ***14B*** 88/93	36+90°+90°	145	51+90°		
	SUPER DELTA 4.1D ***15B-T*** 88/95	27+90°+90°	109	38+90°		Dmax=0.008"
IVECO	TURBO DAILY 3510 2.5D ***8140.27*** 91/96	44+44+180°	118	37+63°	20/26	
MERCEDES BENZ	SPRINTER E200 CDI 2.2D ***OM611.961***/***2*** DOHC 16V 00/06	44+90°+90° M8=15	40+90°	18+90°	29/35	
	210D/310D/410D E290TD 2.9D SPRINTER ***MB602.940***/***42***/***80*** 97/01	26+90°+90° M8=18	40+95°	22+95°	18/28	
	FRIGHTLINER 6.4D ***OM 906 LA***	207+90°+90°	114+90°	12+90°		Dmax=0.003"
MWM	AGRALE SERIE 229 4.3D ***4.10T***/***TCA*** 00/05	45+60°+60°	35+90°	30+60°		
	BUSETA/CAMION/SERIE 10 6.5D ***6.10T***/***TCA 00***/***05***	45+60°+60°	35+90°	30+60°		
INTERNAT	TRUCK 5.9D ***DT 360*** 87/	165	115	80		106.7/106.3
	TRUCK 6.7D ***DT 408 Inj. Elect. 94***/	165	115	115		106.9/106.1
	SERIES 5000/5100 7.6D ***DT466 (Inj.Mec)***	165	160	115		106.7/106.3
	TRUCK 7.6D ***DT466NGD (Inj.Elect.)*** 97/	165	160	115		128.7/128
	CNG/ DT/A ***DT466 Elect.*** 00/	130+90°	130+90°	115		128.7/128
JAC	GREAT WALL HFC/JAC 3.9D ***CY4102BQ 00***/	94	173	94		
CATERPILLAR	TRUCK/EXCAVAD. 4.4D ***3114*** 89/	M20=335 Lb.Pie M10=46 Lb.Pie	45+90°	Conv=45+65° Fract=56+125°		103/102.5
	3066 6.4D ***7JK1***	105	80	90		95/94.6
	KODIAK / GM TRUCK 6.6D ***3116*** 89/	335 Lb.Pie M10=46 Lb.Pie	45+90°	Conv=45+65° Fract=56+125°		103.2/102.5
	IND. 3TR,GMS,9ZR,ZKK,EXCAV. 322C 7.2D ***3126E*** 95/	335 Lb.Pie M10=46 Lb.Pie	40+90°	Conv=45+65° Fract=48+125°		103/102.5
	IND. BDZ,BEJ,DCD,DCS, EXCAV. 325C 7.2D ***3126B*** / ***C7 18v*** 97/	335 Lb.Pie M10=46 Lb.Pie	45+90°	Conv=45+65° Fract=56+120°		158/157.8
	TRUCK 10.4D V8 ***3208*** 87/92	T.6 Marcas=95 T.7 Marcas= 110	35+120°	30+60°		96/95.8
	TRUCK 735, 740 14.6D ***3406E*** OHC 24v	330	190+120°	70+90°		120/119.5
FORD	CARGO 815 3.9D ***4BT***	85+90°	110+90°	65+60°		
	TRUCK 7000/8000 5.9D ***6BT***	85+90°	130	74		
	F-450/550 6.0D NAVISTAR VT.365	M14=85+90°+90°+90° M8=23 Lb.Pie	170	50		95.0
HINO	FC42,142,144,145,155 HP Serie 16 6.0D ***W06D*** (w/o Turbo) 86/	100	116	90		87/86.8
	195-205 HP 6.5D ***EH700*** 98/	135	130	130		95/94.7
	FD165/FF/FG 180-195 HP 6.5D ***H06C*** 82/96	137	130	130		95/94.7
	FD171,172,173,174,175 / GD 172, 174 6.7D ***H07C 82***/***90***	137	130	130		95/94.7
	FB45 8.0D ***J08C-TP***/***TR*** 24v OHC 03/	M12=+43+90°+90° M10=43	51+90°+45°	51+90°+45°		
	SH 8.8D EP 100 90/95	250, M10 = 54	210	170	28/30	
	FS-FY 13.3D EK 100 90/95	200, M12 = 65	175	145	32/34	
VW	EUROVAN 1.9D ***ASV*** TDi 8v SOHC	45+90°+90°	48+90°	22+90°	25/31	132.92
MACK	675-315 11.0D ***E6-2ULV***	200	200	150		117.5/116.9
	E7 24v	330	205	45+65°		162.5/162

NOTAS:
EN LAS PIEZAS CON APRIETE ANGULAR, ES IMPERATIVO SUSTITUIR LOS TORNILLOS Y/O VERIFICAR ESPECIFICACIONES Y RECOMENDACIONES DEL FABRICANTE.

LOS VALORES INDICADOS EN LA PRESENTE TABLA SE HAN OBTENIDO DE FUENTES CONSIDERADAS CONFIABLES; SIN EMBARGO, **NPC** NO ASUME RESPONSABILIDAD ALGUNA POR ERRORES, OMISIONES Y/O LA INTERPRETACIÓN QUE EL USUARIO LE DE A LA PRESENTE PUBLICACIÓN.

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