

NISSAN

Vehicle Model	Year	Engine Type	Cyl. No.	IN EX	NPC No.	Reference No.	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Head Style	Stem End
SUNNY 120Y CHERRY 100A PULSAR 120A B10/B110/210/310 F10/N10/11	1000CC 1200CC	78 - A10 A12	4	IN	INS-0401-TUFF	13201-H1000 13201-H2300 13201-18000	35,00	8,00	103,80	45	ST	NG
				EX	ENS-5401-TUFF	13202-H1000 13202-H2300 13202-H7400 13202-18000	29,00	8,00	103,80	45	ST	NG
SUNNY 140Y PULSAR 140A VIOLET 140J B210/310 N10/710/A10	1400CC	76 - A14	4	IN	INS-0402-TUFF	13201-H6200	37,00	8,00	103,80	45	ST	NG
				EX	ENS-5402-TUFF	13202-H6200 13202-H8900	30,00	8,00	103,80	45	ST	NG
SUNNY 150Y PULSAR 150A B310/N12	1500CC	80 - A15	4	IN	INS-0403-TUFF	13201-H9500	35,00	8,00	100,00	45	ST	NG
				EX	ENS-5403-TUFF	13202-H9500	30,00	8,00	100,00	45	ST	NG
STANZA BLUEBIRD SILVIA LAUREL T12/B11/S12/C32	1600CC	82 - CA16	4	IN	INS-0434-TUFF	13201-D0100	38,00	7,00	106,70	45	ST	
	1800CC	82 - CA18	4	IN	INS-0405-TUFF	13201-D0200	40,00	7,00	106,90	45	ST	MG
	2000CC	84 - CA20	4	IN	INS-0452-TUFF	13201-D2000	41,00	7,00	107,10	45	ST	MG
		84 - CA16 CA18 CA20		EX	ENS-5405-TUFF	13202-D0100 13202-D0200 13202-D1200	35,00	7,00	108,10	45	ST	MG
BLUEBIRD SILVIA with TURBO U11/S12	1800CC	84 - CA18T	4	IN	INS-0451-TUFF	13201-17F00/1	41,00	7,00	105,80	45	ST	NG
				EX	ENS-5451-TUFF	13202-17F00 13202-18F00	35,00	7,00	106,70	45	ST	MG
EUROPE ONLY		CA18T	4	EX	ENS-5452-TUFF	13202-22F00	35,00	7,00	107,00	45	FR	MG
SUNNY/PULSAR 1600CC B12/N13	1600CC	87 - CA16D ⑩	4	IN	INS-0458-TUFF	13201-55M01 13201-55M10	31,00	6,00	89,20	45	ST	CG
				EX	ENS-5458-TUFF	13202-D4200/1	28,10	6,00	89,30	45	F	CG
SUNNY/PULSAR 1800CC 1600CC BLUEBIRD B12/N13/U11/12	1800CC 1600CC	87 - CA18D CA16DE ⑩	4	IN	INS-0462-TUFF	13201-51E10	34,00	6,00	89,00	45	ST	CG
				IN	INS-0497-TUFF	13201-64M10	31,00	6,00	89,20	45	ST	CG
				EX	ENS-5462-TUFF	13202-64M10	28,00	6,00	89,50	45	ST	CG
MARCH MICRA 1000/1300CC	91 - CG10 CG13	4	4	IN	INS-0515-TUFF	13201-41B00 13201-AN200						
				EX	ENS-5515-TUFF	13202-41B00 13202-AN200						
SUNNY/PULSER 1700CC SENTRA B11/12/13 N12/13	1700CC	83 - CD17	4	IN	INS-0446-TUFF	13201-16A00	36,00	7,00	101,00	45	F	NG
				EX	ENS-5446-TUFF	13202-16A00 13202-D2800	31,00	7,00	101,00	45	F	MG
AVENIR SENTRA	2000CC	85 - CD20	4	IN	INS-0484-TUFF	13201-57J02	39,20	7,00	100,70	45	F	NG
				EX	ENS-5484-TUFF	13202-57J02	33,20	7,00	100,70	45	F	NG
AVENIR SENTRA	2000CC	93 - 99,6	45	IN	INS-0487-TUFF	13201-60J02	39,10	7,00	99,80	45	F	NG
				EX	ENS-5487-TUFF	13202-60J02	32,10	7,00	99,60	45	F	NG
SUNNY/PULSER 1000CC SENTRA B11/12/13	1000CC	82 - E10	4	IN	INS-0432-TUFF	13201-41M00/1	35,00	7,00	118,50	45	FR	NG
				EX	ENS-5432-TUFF	13202-41M00	29,00	7,00	118,70	45	FR	NG
SUNNY/PULSER 1300CC 1500CC PRAIRIE SENTRA B11/12/13 N10/12/13/M10	1300CC 1500CC	81 - E13 E15	4	IN	INS-0404-TUFF	13201-01M00 13201-05M00	37,00	7,00	118,80	45	ST	NG
				EX	ENS-5404-TUFF	13202-01M00 13202-05M00 13202-05A00	30,00	7,00	118,20	45	ST	NG
SUNNY SENTRA	1500CC	81 - E15E	4	IN	INS-0433-TUFF	13201-15M00	37,00	7,00	119,70	45	ST	NG
				EX	ENS-5433-TUFF	13202-15M00	31,00	7,00	120,00	45	ST	NG

PULSAR B12/13 N12/13							13202-53A00 13202-63A00							
SUNNY SENTRA PULSAR B11/12/13 N12/13	1600CC	84 -	E16	4	IN	INS-0444-TUFF	13201-31M00 13201-69A00	37,00	7,00	116,70	45	ST	NG	
					EX	ENS-5444-TUFF	13202-31M00 13202-69A00	30,00	7,00	116,00	45	ST	NG	
CABALL CLIPPER CIVILIAN C340	3000CC	73 -	BD30	4	IN	INS-0430-TUFF	13201-J2000 13201-J2001	45,00	9,00	129,70	60	F	CG	
					EX	ENS-5430-TUFF	13202-J2000	36,00	9,00	130,00	45	F	CG	
					EX	ENS-5498-TUFF	13202-54T00/1	38,00	8,00	117,00	45	F	CG	
CONDOR CABALL CIVILIAN M40/G341/W40	3300CC 5700CC	80 - 83 - 75 - 83 -	ED33 FD33 FD6 PD6	4 4 6 6	IN	INS-0429-TUFF	13201-Z5000 13201-T9000	47,00	9,00	129,50	60	F	CG	
					EX	ENS-5429-TUFF	13202-Z5000 13202-Z5001 13202-T9000	38,00	9,00	130,00	45	F	CG	
ATLAS CABALL	3500CC	89 -	FD35	4	IN	INS-0485-TUFF	13201-01T00	48,50	9,00	129,50	45	F	CG	
					EX	ENS-5485-TUFF	13202-01T00	39,50	9,00	130,00	45	F	CG	
ATLAS CONDOR	4600CC	92 -	FD46	4	IN	INS-0506-TUFF	13201-0T000	48,50	9,00	129,00	45	F	CG	
					EX	ENS-5506-TUFF	13202-17D00	39,50	9,00	130,00	45	F	CG	
SKYLINE SILVIA R30/S110	2000CC	82 -	FJ20	4	IN	INS-0435-TUFF	13201-R2000	34,50	7,00	125,20	45	ST	NG/MG	
					EX	ENS-5435-TUFF	13202-R2000							
SUNNY SENTRA B13/14/N14	1400CC 1600CC	90 - 90 -	GA14D GA15D GA16D	4 4	IN	INS-0473-TUFF	13201-73Y00 13201-53Y00 13201-2M200 13201-57Y00 13201-55Y00 13201-70N00 13201-0M600	29,00	5,50	92,30	45	ST	CG	
					IN	INS-0468-TUFF		30,00	5,50	92,30	45	ST	CG	
					EX	ENS-5468-TUFF	13202-57Y00 13202-55Y00 13202-53Y00 13202-0M600	24,00	5,50	92,70	45	ST	CG	
			16											
SENTRA	1300CC	90 -	GA13	4	IN	INS-0474-TUFF	13201-72Y00	26,50	5,50	92,30	45	ST	CG	
					EX	ENS-5474-TUFF	13202-72Y00	21,50	5,50	92,70	45	ST	CG	
			16											
SUNNY SENTRA B13/14/N14	1400CC 1600CC	88 - 88 -	GA14 GA16	4 4	IN	INS-0465-TUFF	13201-88A00	29,10	6,00	113,80	45	ST	CG	
					EX	ENS-5465-TUFF	13202-88A00/2	33,00	6,60	116,30	45	ST	CG	
					EX	ENS-5466-TUFF	13202-87A00	32,00	6,60	116,20	45	ST	CG	
			IN - 8 EX - 4											
SENTRA B13	1600CC	89 -	GA16i	4	IN	INS-0457-TUFF	13201-84A00	29,00	6,00	113,70	45	ST	CG	
					EX	ENS-5457-TUFF	13202-84A00	33,00	6,60	116,30	45	ST	CG	
			IN - 8 EX - 4											
JUNIOR CARAVAN 140/E20/E23	2000CC 3000CC	67 - 4	H20 H30	4 4	IN	INS-0410-TUFF	13201-P0500 13201-F1800 13201-78200 13201-66700	42,00	8,70	110,20	45	ST		
					EX	ENS-5410-TUFF	13202-P0500 13202-P5100 13202-78200 13202-78210	32,00	8,70	110,20				
OVER SIZE 0.20MM			H20	4	IN	INS-0442-TUFF	13201-P0501 13201-F1801	42,00	8,70	110,20	45	ST		
					EX	ENS-5442-TUFF	13202-P5101 13202-78201	32,00	8,70	110,20	45	ST	NG	
OVER SIZE 0.40MM			H20	4	IN	INS-0443-TUFF	13201-F1802	42,00	8,70	110,20	45	ST		

					EX	ENS-5478-TUFF	13202-96003 13202-96004	52	12	158	45	F	CG
					EX	ENS-5481-TUFF	13202-96005	54	12	157,7	45	F	CG
TRUCK CV/CW/WD/WG	14300CC 10000CC	72 - 75 -	RD8 RD10 ED8 ED10	8 10 8 10	IN	INS-0423-TUFF	13201-97000 13201-97002 13201-97005 13201-97008-9 13201-97026	60,00	10,00	161,00	45	F	CG
					IN	INS-0422-TUFF	13201-97001	60,00	10,00	161,20	60	F	CG
					EX	ENS-5423-TUFF	13202-97000-5 13202-97011 13202-97025-7	50,00	12,00	161,20	45	ST	CG
TRUCK CD/CF/CG/CK		95 -	RF8 RG8	8	IN	INS-0423-TUFF	13201-97008	60,00	10,00	161,00	45	F	CG
					EX	ENS-5472-TUFF	13202-97009 13202-97014 13202-97016-8 13202-97062 13202-97068	52,00	12,00	161,00	45	F	MG
TRUCK CD55/CG55/CK551 CW55		97 -	RH8	8	IN	INS-0513-TUFF	13201-97010	52,00	10,00	164,60	45	ST	CG
					EX	ENS-5513-TUFF	13202-97069 13202-97064	47,90	10,00	164,60	45	ST	CG
LAUREL CEDRIC PATROL	2800CC	85 -	RD28	6	IN	INS-0482-TUFF	13201-40L01	39,10	7,00	101,90	45	F	MG
					EX	ENS-5482-TUFF	13202-40L01	32,10	7,00	101,80	45	ST	MG
PATROL CEDRIC LAUREL	2800CC	85 -	RD28T	6	IN	INS-0483-TUFF	13201-V7202 13201-V7200 13201-V7201 13201-4P410	39,10	7,00	162,80	45		MG
					IN	INS-0505-TUFF	13201-0Y010 13201-22J00 13201-22J01	39,20	7,00	162,80	45	ST	CG
					EX	ENS-5483-TUFF	13202-V7202 13202-V7200 13202-4P410 13202-22J00	32,10	7,00	102,60	45		MG
BLUEBIRD PRIMELA	2000CC	85 -	SR20DE ®	4	IN	INS-0486-TUFF	13201-53J00	34,10	6,00	101,50	45	ST	CG
					EX	ENS-5486-TUFF	13202-53J00/1	30,10	6,00	102,40	45	FR	CG
BLUEBIRD PRIMERA SILVIA	2000CC		SR20DE1	4	IN	INS-0507-TUFF	13201-1E710/1	34,10	6,00	101,50	45	ST	CG
					EX	ENS-5507-TUFF	13202-64Y00	30,10	6,00	102,30	45	ST	CG
JUNIOR CABALL	2200CC 3300CC	68 -	SD22 SD33	4 6	IN	INS-0413-TUFF	13201-Y5200 13201-90005	38,50	8,00	117,00	45	F	CG
					EX	ENS-5413-TUFF	13202-Y5200 13202-76200	32,50	8,00	117,00	45	F	CG
OVER SIZE 0.20MM			SD22 SD33		IN	INS-0440-TUFF	13201-Y5201 13201-90006	38,50	8,00	117,00	45	ST	CG
					EX	ENS-5440-TUFF	13202-Y5201 13202-76201	32,50	8,00	117,00	45	ST	CG
OVER SIZE 0.40MM			SD22 SD33	4	IN	INS-0441-TUFF	13201-Y5202 13201-90007	38,50	8,40	117,00	45	ST	CG
					EX	ENS-5441-TUFF	13202-Y5202 13202-76202	32,50	8,40	117,00	45	ST	CG
URVAN PICK UP ATLAS E23/720/F22	2300CC 2500CC	83 -	SD23 SD25	4	IN	INS-0438-TUFF	13201-L2000	40,00	8,00	117,00	45	F	CG
					EX	ENS-5438-TUFF	13202-L2000	34,00	8,00	116,90	45	F	CG
OVER SIZE 0.20MM			SD23 SD25	4	IN	INS-0463-TUFF	13201-L2001	40,00	8,20	117,00	45	F	CG
					EX	ENS-5463-TUFF	13202-L2001	34,00	8,20	116,90	45	F	NG
PATROL	4200CC	88 -	TB42	6	IN	INS-0475-TUFF	13201-03J00	47,20	8,00	118,20	45	ST	NG

Y60					EX	ENS-5475-TUFF	13202-03J00	38,00	8,00	119,00	45		NG
PATROL	4500CC	98 -	TB45	6	IN	INS-0499-TUFF	13201-VB000	47,00	8,00	118,40	45	ST	NG
					EX	ENS-5499-TUFF	13202-54N00	38,00	8,00	119,00	45	F	NG
PATROL SAFARI	4800CC	02 -	TB48 24	6	IN	INS-0516-TUFF	13201-VC200						
					EX	ENS-5516-TUFF	13202-VC200						
URVAN ATLAS E24/F22	2300CC	87 -	TD23	4	IN	INS-0459-TUFF	13201-02N00	40,00	8,00	117,10	45	F	CG
					EX	ENS-5459-TUFF	13202-02N01	35,00	8,00	117,10	45	F	CG
URVAN ATLAS PICK UP E24/F22/D21	2500CC	89 -	TD25	4	IN	INS-0464-TUFF	13201-44G00	41,50	8,00	117,10	45	F	CG
					EX	ENS-5464-TUFF	13202-44G00	37,00	8,00	117,10	45	F	CG
PICK UP PATHFINDER PATROL D21/WD21/Y60	2700CC 4200CC		TD27 TD42	4 4	IN	INS-0455-TUFF	13201-43G01	43,50	8,00	117,00	45	F	CG
					EX	ENS-5455-TUFF	13202-43G01	38,00	8,00	117,00	45	F	CG
MISTRAL with TURBO SPAIN KD	2700CC		TD27T	4	IN	INS-0489-TUFF	13201-G2403	43,50	8,00	117,00	45	F	CG
					EX	ENS-5489-TUFF	13202-G2403	38,00	8,00	117,00	45		CG
CEDRIC Y30	2000CC	84 -	VG20	6	IN	INS-0447-TUFF	13201-V5001 13201-V5010	38,00	7,00	128,20	45	ST	MG
					EX	ENS-5447-TUFF	13202-V5010	33,10	8,00	127,50	45	ST	2MG
CEDRIC FAIRLADY Y30	3000CC	84 -	VG30	6	IN	INS-0450-TUFF	13201-V5202	42,00	7,00	125,70	45	ST	MG
					EX	ENS-5450-TUFF	13202-V6510 13202-V5210 13202-42E00	35,00	7,00	124,50	45	ST	MG
300ZX	3000CC	85 -	VG30	6	IN	INS-0492-TUFF	13201-F6511	34,10	6,00	103,30	45	ST	CG
					EX	ENS-5492-TUFF	13202-F6511						
					EX	ENS-5493-TUFF	13202-40P00	29,60	6,00	103,80	45	ST	CG
300ZX with TURBO	3000CC	85 -	VG30	6	IN	INS-0494-TUFF	13201-30P00	34,00	6,00	103,30	45	ST	CG
					EX	ENS-5494-TUFF	13202-38P00	29,60	6,00	103,70	45	FR	CG
MAXIMA	3000CC	93 -	VG30DET (24)	V6	IN	INS-0501-TUFF	13201-97E00	35,00	6,00	110,60	45	ST	CG
					EX	ENS-5501-TUFF	13202-97E00	30,70	6,00	102,70	45	ST	CG
MAXIMA	2000CC	96 -	VQ20 (24)	V6	IN	INS-0502-TUFF	13201-31U00	29,00	6,00	104,00	45	ST	CG
					EX	ENS-5502-TUFF	13202-31U00	24,00	6,00	101,50	45	ST	CG
CEDRIC MAXIMA	3000CC		VQ30 (24)	V6	IN	INS-0495-TUFF	13201-38U00 13201-47U00	26,00	6,00	97,60	45	ST	CG
					EX	ENS-5495-TUFF	13202-38U00 13202-47U00	31,40	6,00	95,00	45	ST	CG
AD VAN AVENIR		00 -	YD22	4	IN	INS-0514-TUFF	13201-AD210						
EX					EX	ENS-5514-TUFF	13202-AD200						
PICK UP BLUEBIRD 720/910	1600CC 1800CC	79 - 79 -	Z16 Z18 Z20	4 4	IN	INS-0437-TUFF	13201-W0500 13201-W7000	38,10	8,00	126,40	45	ST	NG
					IN	INS-0421-TUFF	13201-W0401 13201-Y8780	42,20	8,00	126,40	45	ST	NG
					EX	ENS-5421-TUFF	13202-W0401 13202-Y8780 13202-27G00	38,20	8,00	127,60	45	ST	MG
PICK UP BLUEBIRD	2000CC 2400CC	85 - 89 -	Z22 Z24	4	IN	INS-0426-TUFF	13201-N8500	42,00	8,00	124,20	45	ST	NG
					IN	INS-0445-TUFF	13201-N8501	42,00	8,00	124,20	45	ST	
					EX	ENS-5426-TUFF	13202-N8500	38,00	8,00	125,20	45	ST	NG
URVAN	3000CC	00 -	ZD30	4	IN	INS-	13201-2W200/1						
EX	ENS-			EX	ENS-	13202-2W200							

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DAIHATSU

Vehicle Model	Year	Engine Type	Cyl. No.	IN EX	NPC No.	Reference No.	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Head Style	Stem End
CONSORTE/TAFT 1000CC EP30,F10/40	64 - 77	FE	4	IN	IDH-0002-TUFF	13711-87101 13711-87102 4023-1641	32,00	7,00	95,00	45	ST	
				EX	EDH-5002-TUFF	13715-87101/4 13715-87102 4023-1642	29,00	7,00	95,00	45	FR	
DELTA 2530CC DV2#/3#	69 - 77	DG	4	IN	IDH-0003-TUFF	13711-87305 13711-87304	40,00	9,00	136,20	45	ST	CG
				EX	EDH-5003-TUFF	13715-87305 13715-87304	33,00	9,00	136,20	45	F	CG
HI JET/CHARADE 547/1000CC S4#/5#/6#/7# G10/11/100	77 -	AB/CB	3/4	IN	IDH-0004-TUFF	13711-87701/2 13711-87705	36,00	7,00	101,60	45	F	CG
				EX	EDH-5004-TUFF	13715-87701 13715-87702	33,00	7,00	101,60	45	ST	CG
DELTA 2530CC DV26/36	77 -	DG	4	IN	IDH-0005-TUFF	13711-87306	40,00	9,00	127,60	45	F	MG
				EX	EDH-5005-TUFF	13715-87307 13715-87309	33,00	9,00	127,70	45	F	MG
DELTA BUS TAFT 2500/2800CC DV2#/3#, SV18/ 26/32 F50/60	67	DG/DL	4	IN	IDH-0006-TUFF	13711-87308	40,00	9,00	127,60	45	F	CG
				EX	EDH-5006-TUFF	13715-87311	33,00	9,00	127,60	45	F	CG
CHARADE 993CC G30/G101	82 -	CL	3	IN	IDH-0007-TUFF	13711-87704	36,00	7,00	104,90	45	ST	CG
				EX	EDH-5007-TUFF	13715-87703	32,00	7,00	105,10	45	F	CG
DELTA 2800CC V5#	85 -	DL	4	IN	IDH-0008-TUFF	13711-87312 13711-87314	42,00	9,00	127,60	45	F	CG
				EX	EDH-5008-TUFF	13715-87319 13715-87317 13715-87322	35,00	9,00	127,60	45	F	CG
CHARADE 1300CC APPLAUSE 1600CC FEROZA G101/A101	89 -	HC HD (16)	4	IN	IDH-0010-TUFF	13711-87104 13711-87103	30,00	6,60	112,60	45	F	CG
				EX	EDH-5010-TUFF	13715-87106 13715-87105	26,00	6,60	114,80	45	F	CG
KANCIL 660CC MALAYSIAN SPEC L200		EF/CL	3	IN	IDH-0013-TUFF	13711-87201	30,00	7,00	112,50	45	F	CG
				EX	EDH-5013-TUFF	13715-87201	26,00	7,00	112,60	45	F	CG
CHARADE 1000CC		CB	3	IN	IDH-0014-TUFF	13711-87707	30,00	6,00	107,00	45	ST	CG
				EX	EDH-5014-TUFF	13715-87707	26,00	6,00	107,20	45	ST	CG
KANCIL EL201 850CC		EF/CL ED	3	IN	IDH-0015-TUFF	13711-87202	34,00	7,00	111,20	45	ST	CG
				EX	EDH-5015-TUFF	13715-87202	28,00	7,00	110,40	45	FR	CG
MOVE 1000CC STORIA SIRION	97 -	EJ	3	IN	IDH-0016-TUFF	13711-97205	24,50	5,00	79,20	45	ST	CG
				EX	EDH-5016-TUFF	13715-97203	21,00	5,00	79,80	45	ST	CG
HI-JET ATRAI 660CC		EF		IN	IDH-0017-TUFF	13711-87706	34,00	7,00	105,00	45	F	CG
				EX	EDH-5017-TUFF	13715-87705/6	30,00	7,00	105,10	45	FR	CG
TERIOS 1300CC YVR ATRAI CARGO	02 -	K3-VE (16)	4	IN	IDH-0018-TUFF	13711-97401	26,00	5,00	88,20	45	ST	CG
				EX	EDH-5018-TUFF	13715-97401	22,60	5,00	89,20	45	ST	CG
HI-JET 660CC	99 -	EF-SE	3	IN	IDH-0019-TUFF	13711-97203	33,00	5,50	90,00	45	ST	CG
				EX	EDH-5019-TUFF	13715-97202	26,00	5,50	90,00	45	ST	CG

CHARMANT 1200CC A10/EP3#/4#/5#	69 -	3K	4	IN	ITY-0503-TUFF	13711-24010	36,00	8,00	100,00	45	ST	MG
				EX	ITY-5503-TUFF	13715-24010	29,00	8,00	100,00	45	F	MG
CHARMANT 1600CC 1800CC A4#	76 -	2T/3T	4	IN	ITY-0507-TUFF	13711-25011	41,00	8,00	109,00	45	ST	MG
				EX	ETY-5507-TUFF	13715-25011	36,00	8,00	109,00	45	F	MG
CHARMANT 1500CC A5#/6# 1600CC	81 -	3A/4A	4	IN	ITY-0546-TUFF	13711-15010	36,00	7,00	106,70	45	ST	MG
				EX	ETY-5546-TUFF	13715-15010	31,00	7,00	106,70	45	F	MG
BUS/TAFT 1600CC SV17/F20/25	70 -	12R	4	IN	ITY-0517-TUFF	13711-31040	40,00	8,00	109,00	45	ST	MG
				EX	ETY-5517-TUFF	13715-31040	34,00	8,00	109,00	45	F	MG
DELTA 2000CC DV23/3#	72 -	5R	4	IN	ITY-0533-TUFF	13711-44012	43,10	8,500	109,70	45	ST	2CG
				EX	ETY-5533-TUFF	13715-44021	37,00	8,500	110,00	45	ST	2CG
DELTA/ROCKY 2000CC A6#/10#	85 -	3Y/4Y	4	IN	ITY-0553-TUFF	13711-71010	40,00	8,00	108,30	45	ST	CG
				EX	ITY-5553-TUFF	13715-71010	36,00	8,00	108,60	45	ST	CG
DELTA 2530CC A1#	72 -	B/2B	4	IN	ITY-0538-TUFF	13711-56010	45,00	9,00	128,00	45	F	MG
				EX	ETY-5538-TUFF	13715-56010	37,50	9,00	127,80	45	F	MG
DELTA 3431CC V48	81 -	3B	4	IN	ITY-0544-TUFF	13711-58010	46,00	9,00	128,30	45	F	CG
				EX	ETY-5544-TUFF	13715-58010	41,00	9,00	127,80	45	F	CG
DELTA 3400CC A7#	85 -	13B	4	IN	ITY-0544-TUFF	13711-58010	46,00	9,00	128,30	45	F	CG
				EX	ETY-5557-TUFF	13715-58020	38,50	9,00	128,10	45	ST	CG

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Vehicle Model	Year	Engine Type	Cyl. No.	IN EX	NPC No.	Reference No.	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Head Style	Stem End
TRUCK/BUS 7700CC RD35, ZC34	57 -	DS50 DS60 DS140	6	IN	IHN-0051-TUFF	13711-1310 2872-1305-00	53,00	11,00	161,40	60	F	ITG
				EX	EHN-5051-TUFF	13715-1450 2872-1306-01	45,00	11,00	161,20	45	F	ITG
TRUCK/BUS 7000CC KC320/420, KE102/202 TE120/220, BT51/61/ 220	63 -	DS70/80 DS90	6	IN	IHN-0052-TUFF	13711-1320 2874-1301-01	50,00	10,00	157,00	60	F	ITG
				EX	EHN-5052-TUFF	13715-1460 2874-1302-01	43,00	10,00	157,00	45	F	ITG
BUS 10178CC RC300/320/400/420	67 -	DK10/20	6	IN	IHN-0053-TUFF	13711-1130 2310-1301-01	57,00	12,00	175,00	60	F	ITG
				EX	EHN-5053-TUFF	13715-1150 2311-1302-01	51,00	12,00	175,50	45	F	ITG
TRUCK/BUS 9036CC KB380/TC30	67 -	EB100 EB200	6	IN	IHN-0054-TUFF	13711-1140/1 2330-1301-20 2330-1301-12	54,00	11,70	175,00	60	FR	ITG
				EX	EHN-5054-TUFF	13715-1290 2330-1302-12	48,00	11,70	175,00	45	F	ITG
TRUCK/BUS 5871CC KL3#/4#, AM100/200	70 -	EC100	6	IN	IHN-0055-TUFF	13711-1180 2380-1301-10	46,50	9,00	132,50	45	FR	CG
				EX	EHN-5055-TUFF	13715-1330 2380-1302-10	37,70	9,00	132,50	45	F	CG
TRUCK 13804CC KE700	71 -	EF100 EG100	6 8	IN	IHN-0056-TUFF	13711-1220 2390-1301-20	53,90	12,00	170,00	45	F	2CG
				EX	EHN-5056-TUFF	13715-1370 2390-1302-21	52,00	12,00	170,00	45	F	2CG
TRUCK/BUS 4300CC RM/EM/HM/KM	64 -	DM100 DQ100	6 6	IN	IHN-0057-TUFF	13711-1170 2352-1301-01	43,70	9,00	137,80	45	F	ITG
				EX	EHN-5057-TUFF	13715-1320 2352-1302-01	36,20	9,00	137,80	45	F	ITG
TRUCK 11581CC	71 -	ED100	6	IN	IHN-0058-TUFF	13711-1240 2400-1301-24	58,00	12,00	174,70	45	F	ITG
				EX	EHN-5058-TUFF	13715-1380 2400-1302-04	52,00	12,00	174,40	45	F	ITG
TRUCK 11600CC	71 -	ED100	6	IN	IHN-0059-TUFF	13711-1250 2400-1320-00	58,00	12,00	174,70	45	F	2CG
				EX	EHN-5059-TUFF	13715-1390 2400-1302-20	52,00	12,00	174,40	45	F	2CG
TRUCK 5900CC KL520	73 -	EH100	6	IN	IHN-0060-TUFF	13711-1200 2382-1301-00	49,70	9,00	132,50	45	F	CG
				EX	EHN-5060-TUFF	13715-1350 2382-1302-00	41,70	9,00	132,70	45	F	CG
TRUCK 6200CC KL541/KR360	74 -	EH300	6	IN	IHN-0061-TUFF	13711-1100 13711-1210 2383-1301-10	50,00	9,00	133,40	45	F	CG
				EX	EHN-5061-TUFF	13715-1100 13715-1360 13715-1130/1 2383-1302-10	42,60	9,00	133,00	45	F	CG
TRUCK 13267CC ZY/KY	80 -	EK100 EK200	6	IN	IHN-0062-TUFF	13711-1011	57,00	12,00	172,00	60	F	2CG
				EX	EHN-5062-TUFF	13715-1010/1 13715-1000	53,00	12,00	172,20	45	F	2CG
TRUCK/BUS 16300CC KB/KF	81 -	EF550 EF750	8	IN	IHN-0063-TUFF	13711-1380 13711-1390 13711-1420 13711-1450/1 13711-1012	57,00	12,00	170,00	60	F	CG
				EX	EHN-5063-TUFF	13715-1012	53,00	12,00	170,00	45	F	CG

						13715-1013								
TRUCK	9800CC	70 -	EB300	6	IN	IHN-0064-TUFF	13711-1030	54,00	12,00	175,30	60	F	2CG	
KB					EX	EHN-5064-TUFF	13715-1040	48,00	12,00	175,30	45	F	2CG	
TRUCK/BUS	14232CC 14779CC 15920CC 19900CC	75 - 75 - 76 - 82-	EF300 EF500 EF700 EV700	8 8 8 8	IN	IHN-0065-TUFF	13711-1050 13711-1370	56,00	12,00	169,00	60	F	CG	
ZM					EX	EHN-5065-TUFF	13715-1060 13715-1061	52,00	12,00	169,00	45	F	CG	
TRUCK/BUS	13800CC 14900CC	71	EF100 EG100	6 8	IN	IHN-0066-TUFF	13711-1110 13711-1330	54,00	12,00	167,70	45	F	2CG	
KA/KF/TC/ZM					EX	EHN-5066-TUFF	13715-1140	50,00	12,00	167,70	45	F	2CG	
TRUCK/BUS	9491CC	81 -	EM100	6	IN	IHN-0067-TUFF	13711-1410 13711-1500	54,00	10,00	145,00	60	F	CG	
FH/RV					EX	EHN-5067-TUFF	13715-1240	48,00	10,00	144,00	45	F	CG	
TRUCK/BUS	6433CC	78 -	EH700	6	IN	IHN-0068-TUFF	13711-1081 13711-1470/1	48,00	9,00	142,00	60	F	CG	
FT/FD/CD					EX	EHN-5068-TUFF	13715-1111/0	42,00	9,00	142,00	45	F	CG	
							13715-1081 13715-1220 13715-1520	41,30	9,00	142,00	45	F	CG	
TRUCK	8800CC	81 -	EP100	6	IN	IHN-0070-TUFF	13711-1430/1 13711-1530 13711-1541	50,00	10,00	145,00	60	F	CG	
FN/FR					EX	EHN-5070-TUFF	13715-1260 13715-1580	46,40	10,00	145,00	45	F	CG	
BUS	11600CC	78 -	ER100 ER200	6	IN	IHN-0071-TUFF	13711-1360	55,00	12,00	162,40	60	F	CG	
RC					EX	EHN-5071-TUFF	13715-1470	51,00	12,00	162,40	45	F	CG	
TRUCK	7862CC	78 -	EL100	6	IN	IHN-0072-TUFF	13711-1350	50,00	10,00	144,50	60	F	CG	
FG/LB/KK					EX	EHN-5072-TUFF	13715-1070	46,40	10,00	144,50	45	F	CG	
TRUCK	9800CC	71 -	EB300 EB400	6	IN	IHN-0073-TUFF	13711-1090/1	53,00	12,00	175,00	60	F	CG	
KB/RE					EX	EHN-5073-TUFF	13715-1500 13715-1122	47,00	12,00	175,00	45	F	CG	
TRUCK	4000CC 5800CC	83 -	W04D W06D	4 6	IN	IHN-0074-TUFF	13711-1441/3 13711-1520/1 13711-78010	45,40	9,00	123,10	60	F	CG	
					EX	EHN-5074-TUFF	13715-1251 13715-1570 13715-78010	40,00	9,00	123,00	45	F	CG	
TRUCK			H07C	6	IN	IHN-0076-TUFF	13711-1550	47,90	9,00	134,70	60	F	CG	
					EX	EHN-5076-TUFF	13715-1590	41,30	9,00	134,30	45	F	CG	
TRUCK			DS56	6	IN	IHN-0077-TUFF	13711-1340	50,00	11,00	161,30	45	F	ITG	
					EX	EHN-5077-TUFF	13715-1570							
RANGER	8000CC	98 -	JO8	6	IN	IHN-0078-TUFF	13711-1830	39,00	7,00	133,00	45	F	CG	
					EX	EHN-5078-TUFF	13715-1730	37,00	7,00	132,20	45	F	CG	
TRUCK	11000CC	90 -	P09C(T) P11C(T)	6	IN	IHN-0079-TUFF	13711-1600 13711-1790 13711-1590/1	40,90	8,00	155,50	60	F	CG	
FN,FH,FP FS,FW,GN					EX	EHN-5079-TUFF	13715-1620 13715-1801	39,90	8,00	155,40	45	F	CG	

TRUCK FN,FR,FS FU,FW,FY SH	20000C	92 -	F20C	V8	IN	IHN-0080-TUFF	13711-1610/1	48,9	10	159,7	60	F	CG
					EX	EHN-5080-TUFF	13715-1750 13715-1630	46,9	10	159,4	45	F	CG

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Vehicle Model	Year	Engine Type	Cyl. No.	IN EX	NPC No.	Reference No.	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Head Style	Stem End		
CIVIC 1200CC 1300CC SK/SL/SP/SS SG/SH/SC/SF	78 -	ED EE EB5 EN EN	4	IN		IHO-0102-TUFF	14711-634-000	36,00	6,60	109,50	45	ST	PG	
							14711-634-671 14711-634-920 14711-634-921							
						EX	EHO-5102-TUFF	14721-634-000 14721-634-671 14721-634-920 14721-634-940	32,00	6,60	109,50	45	F	PG
				EX	EHO-5116-TUFF	14721-PA1-000 14721-PA1-671	32,00	6,60	110,20	45	ST	PG		
CIVIC 1500CC SF/SE/VB/SR	79 -	EC ED EF EJ ⑫	4	IN		IHO-0103-TUFF	14711-671-000	35,00	6,60	112,80	45	ST	PG	
							14711-671-003							
						AU	IHO-0133-TUFF	14711-PA6-660	12,00	6,60	97,80			
				EX	EHO-5103-TUFF	14721-657-000 14721-657-003 14721-657-010 14721-657-671	28,00	6,60	113,00	45	ST	PG		
CIVIC 1200CC SB1	73 -	EB-1 EB-2	4	IN		IHO-0104-TUFF	14711-611-000	34,00	6,60	112,70	45	ST	PG	
							14731-657-670	12,00	5,50	81,90				
						AU	IHO-0130-TUFF	14731-657-671	12,00	5,50	88,50			
						EX	EHO-5104-TUFF	14721-611-000	30,00	6,60	112,70	45	F	PG
				EX	EHO-5112-TUFF	14721-657-672	28,00	6,60	113,00	45	F	PG		
				EX	EHO-5113-TUFF	14721-657-673	28,00	6,60	113,70	45	ST	PG		
ACCORD PRELUDE SH/SU/SY	1800CC	78 -	4	IN		IHO-0106-TUFF	14711-689-000	34,00	7,00	113,20	45	ST	CG	
							14731-689-000	12,00	6,60	89,60				
						EX	EHO-5106-TUFF	14721-689-000	28,00	7,00	113,20	45	F	CG
						EX	EHO-5114-TUFF	14721-689-660	28,00	7,00	113,70	45	ST	CG
TN550 ACTY JT/TA	550CC	79 -	2	IN		IHO-0108-TUFF	14711-371-000	38,00	6,60	102,40			MG	
							14711-679-620							
						EX	EHO-5108-TUFF	14721-371-000	32,00	6,60	101,30			PG
ACCORD PRELUDE QUINTET SV/SU/SY	1500CC	80 -	4	IN		IHO-0109-TUFF	14711-PB2-000	35,00	7,00	113,40	45	ST	CG	
							14731-PB2-000	12,00	6,60	93,70				
						EX	EHO-5109-TUFF	14721-PB2-000	28,00	7,00	113,10	45	F	CG
						EX	EHO-5120-TUFF	14721-676-640 14721-676-641	28,00	7,00	113,80	45	F	CG
CIVIC ACCLAIM SL/SP/ST/SR	1500CC	82 -	4	IN		IHO-0110-TUFF	14711-PA6-000	35,00	6,50	114,30	45	ST	PG	
							14731-PA6-000	12,00	6,50	94,00				
						AU	IHO-0137-TUFF	14731-PA6-010	12,00	6,50	94,00			
						EX	EHO-5110-TUFF	14721-PA6-000	28,00	6,50	114,50	45	F	PG
ACCORD PRELUDE SH/SZ/SN	1800CC	82 -	4	IN		IHO-0111-TUFF	14711-PC1-000	36,00	7,00	113,40	45	ST	CG	
							14711-PC1-600							
						AU	IHO-0138-TUFF	14731-PA5-000	12,00	6,50	97,00			
				EX	EHO-5111-TUFF	14721-PC1-000 14721-PC3-000 14721-PC3-600 14721-PC3-660	36,00	7,00	113,90	45	ST	CG		
ACCORD PRELUDE AB/AC/AD	1800CC 1600CC	83 - 83 -	4	IN		IHO-0112-TUFF	14711-PC6-000	30,00	6,50	120,50	45	ST	OG	
							14731-PC6-000	12,00	6,50	96,70				
						EX	EHO-5119-TUFF	14721-PC6-000 14721-PH1-000	35,00	7,00	120,80	45	ST	CG
ACCORD 1800CC	82 -	EK	4	EX		EHO-5122-TUFF	14721-PC7-000	35,00	7,00	121,50	45	ST	CG	
						EX	EHO-5125-TUFF	14721-PE7-000	33,10	6,70	113,80	45	ST	CG
CIVIC TRIUMPH CRX	1300CC 1500CC	83 -	4	IN		IHO-0121-TUFF	14711-PE0-000	27,00	6,50	112,80	45	ST	CG	
						EX	EHO-5121-TUFF	14721-PE0-000 14721-PE0-024	32,00	6,50	114,40	45	ST	CG

AG/AK/AJ/AE/AH			⑫															
CIVIC 1300CC TRIUMPH 1500CC CRX AG/AK/AJ/SE/AH	84 -		EV EW ⑫	4	IN	IHO-0123-TUFF	14711-PE0-660	30,00	6,50	112,80	45	ST	CG					
					AU	IHO-0141-TUFF	14731-PE0-000	12,00	6,50	89,20								
					EX	EHO-5123-TUFF	14721-PE0-660	29,00	6,50	114,00	45	ST	CG					
ACURA INTEGRA PRELUDE ACCORD	84 -		A15 A16 A18	4	IN	IHO-0122-TUFF	14711-PD4-000	26,00	6,50	120,50	45	ST	CG					
						IHO-0128-TUFF	14711-PG6-000	30,00	6,50	104,40	45	ST	CG					
					EX	EHO-5128-TUFF	14721-PG6-000	27,00	6,50	104,60	45	ST	CG					
ACCORD PRELUDE LEGEND	87 -		C20A C27A	4	IN	IHO-0124-TUFF	14711-PH3-000	33,00	6,50	104,50	45	FR	CG					
					EX	EHO-5129-TUFF	14721-PH3-000	28,00	6,50	105,90	45	ST	CG					
					EX	EHO-5124-TUFF	14721-PH7-000	27,00	6,50	106,60	45	ST	CG					
INTEGRA 1600CC ACCUA 1300CC CIVIC 1500CC D5A/EF/MA without VTEC	88 -		ZC D13 D15 ⑬	4	IN	IHO-0126-TUFF	14711-PM3-000	29,00	5,50	115,10	45	ST	CG					
					IN	IHO-0129-TUFF	14711-PR4-A00	31,00	6,50	105,40	45	ST	CG					
					EX	EHO-5126-TUFF	14721-PM3-000	25,00	5,50	118,80	45	F	CG					
CITY 1200CC JAZZ AA/VF	84 -		ER ⑫	4	IN	IHO-0127-TUFF	14711-PC0-000	30,00	6,50	118,00	45	ST	PG					
					EX	EHO-5127-TUFF	14721-PC0-000	24,00	6,50	117,00	45	F	PG					
ACCORD 1800CC 2000CC CB/CD	89 -		F18 F20 ⑬	4	IN	IHO-0701-TUFF	14711-PT0-000 14711-P0B-A00 14711-P0J-A00	32,00	5,50	112,00	45	FR	CG					
					EX	EHO-5701-TUFF	14721-PT0-000 14721-PT0-B00	27,00	5,50	123,50	45	ST	CG					
					IN	IHO-0702-TUFF	14711-890-000	36,00	7,00	127,00								
					EX	EHO-5702-TUFF	14721-890-000	31,50	7,00	127,60								
ACCORD 2200CC PRELUDE	92 -		F22A ⑬	4	IN	IHO-0704-TUFF	14711-PT5-000 14711-PT3-A00	34,00	5,50	112,20	45,00	ST	CG					
					EX	EHO-5707-TUFF	14721-PT6-A00 14721-P0J-A00	29,10	5,50	123,50	45,00	ST	CG					
						EHO-5704-TUFF	14721-PT3-Y00	29,00	5,50	124,00	45,00	ST	CG					
ACCORD 2200CC PRELUDE 2300CC	92 -		F22 F23 ⑬	4	IN	IHO-0706-TUFF	14711-PT2-000	34,00	6,50	103,60	45,00	ST	CG					
					EX	EHO-5706-TUFF	14721-PT2-000	29,00	6,50	102,80	45,00	ST	CG					
DEL SOL 1600CC CIVIC with VTEC	95 -		B16A ⑬	4	IN	IHO-0708-TUFF	14711-PR3-000	33,00	5,50	102,40	45	ST	CG					
					EX	EHO-5708-TUFF	14721-PR3-000	28,00	5,50	102,60	45	ST	CG					
CIVIC 1600CC with VTEC	92 -		D16 ⑬	4	IN	IHO-0709-TUFF	14711-PO8-000	30,00	5,50	118,50	45	ST	CG					
					EX	EHO-5709-TUFF	14721-PO8-000	26,00	5,50	116,00	45	ST	CG					
ACCUA LEGEND 3200C			C32 24	V6	IN	IHO-0710-TUFF	14711-PY3-000	33,10	5,50	114,90	45	ST	CG					
					EX	EHO-5710-TUFF	14721-PY3-000	28,00	5,00	117,80	45	ST	CG					
ACCORD 2000CC ODYSSEY 2200CC with VTEC	94 -		F20/22 ⑬	4	IN	IHO-0711-TUFF	14711-P0A-000	34,00	5,50	116,10	45	ST	CG					
					EX	EHO-5711-TUFF	14721-P0A-000	29,00	5,50	114,30	45	ST	CG					
					EX	EHO-5712-TUFF	14721-P0A-Y00	29,00	5,50	115,00	45	T	CG					
CIVIC 1500CC with VTEC	92 - 95		D15 ⑬	4	IN	IHO-0713-TUFF	14711-P07-000	27,50	5,50	120,00	45	ST	CG					
					EX	EHO-5713-TUFF	14721-P07-000	23,50	5,50	117,50	45	ST	CG					
CIVIC 1600CC JAZZ without VTEC	94 -		D16 D17 ⑬	4	IN	IHO-0714-TUFF	14711-P2A-000	30,00	5,50	118,60	45	ST	CG					
					EX	EHO-5714-TUFF	14721-P2A-000	26,00	5,50	116,00	45	ST	CG					
ACCORD 2700CC U.S.A.	96 -		G27 24	V6	IN	IHO-0715-TUFF	14711-P0G-A00	33,00	6,50	104,50	45	ST	CG					
					EX	EHO-5715-TUFF	14721-P0G-A00	27,50	6,50	106,50	45	ST	CG					

CR-V STEPWAGON	2000CC	97 -	B20B ⑩	4	IN	IHO-0716-TUFF	14711-P75-000	31,00	6,50	105,50	45	ST	CG
					EX	EHO-5716-TUFF	14721-P75-000	28,00	6,50	106,00	45	ST	CG
TN ACTY LIFE	660CC	90 -	E07A	3	IN	IHO-0717-TUFF	14711-PN4-000	23,00	5,50	115,70	45	ST	CG
					EX	EHO-5717-TUFF	14721-PN4-000	20,00	5,50	117,70	45	ST	CG
ACCORD INSPIRE LEGEND ODYSSEY	97 -		J30 J32 F22 F23 24	V6	IN	IHO-0718-TUFF	14711-POH-A00	34,00	5,50	116,00	45	ST	CG
					EX	EHO-5718-TUFF	14721-POH-A00	29,00	5,50	114,30	45	ST	CG
CR-V 2000/2400CC STREAM I-VTEC	00 -		K20A K20B	4	IN	IHO-0719-TUFF	14711-PNA-000	35,00	5,50	109,10	45	ST	OG
					EX	EHO-5719-TUFF	14721-PNA-000	29,00	5,50	114,30	45	ST	OG
ACCORD PRELUDE VTEC	2200CC	96 -	H22A ⑩	4	IN	IHO-0720-TUFF	14711-P13-000	35,00	5,50	106,80	45	ST	CG
					EX	EHO-5720-TUFF	14721-P13-000	30,00	5,50	107,00	45	ST	CG
PASSPORT 3200CC	2600CC	94 -	4ZE1	4	IN	IIS-0197-TUFF	8-94174-222-1	44,20	8,00	108,60	45	ST	NG
					EX	EIS-5197-TUFF	8-97110-256-0	37,00	6,00	108,20	45	ST	NG
			6VD	V6	IN	IIS-0217-TUFF	8-97015-546-2	34,00	6,00	99,10	45	ST	CG
					EX	EIS-5217-TUFF	8-97015-547-1	30,00	6,00	100,60	45	ST	CG

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Vehicle Model	Year	Engine Type	Cyl. No.	IN EX	NPC No.	Reference No.	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Head Style	Stem End
ELF 2200CC LUV 2200CC TROOPER 2400CC FLORIAN	71 -	C190 C220 C240	4	IN	IIS-0151-TUFF	9-12551-802-0/1 8-94026-571-0 8-94130-749-0 9-12551-037-0 9-12551-093-0/2	38,00	8,00	116,00	45	F	CG
KAD40/50 KBD20/25/41/46 TLD23/43/53/63 UBS52/PAD				EX	EIS-5151-TUFF	9-12552-801-0/1 5-12552-014-0 5-12552-026-0 8-94027-307-0 8-94118-839-0 9-12552-071-0 9-12552-090-0	32,00	8,00	116,00	45	F	CG
				IN	IIS-0152-TUFF	5-12551-001-0	41,00	8,00	117,00	45	ST	CG
				EX	EIS-5152-TUFF	5-12552-001-0	35,00	8,00	116,70	45	ST	CG
ELF 1600CC LUV BELLET KB20/KA51/PR50/91, PA20	68 -	G161	4	IN	IIS-0153-TUFF	9-12551-128-0 9-12551-159-0	41,00	8,00	109,80	45	ST	CG
				EX	EIS-5153-TUFF	9-12552-175-0 9-12552-215-0	32,00	8,00	109,80	45	F	CG
ELF 3300CC JOURNEY 5000CC FORWARD 2800CC 3600CC 3200CC 3200CC 3800CC 5400CC 5700CC 6100CC	70 - 70 - 73 - 73 - 79 - 79 - 80 - 72 - 76 - 80 -	C330 D500 4BA1 4BB1 4BC1 4BC2 4BD1 4BE1 6BB1 6BD1 6BF1	4 6 4 4 4 4 4 6 6 6	IN	IIS-0154-TUFF	9-12551-801-0 1-12551-050-0 1-12551-054-0 5-12551-006-0 5-12551-024-0 8-94129-550-0 8-97028-702-0	45,00	9,00	127,80	45	F	CG
BE20/22, BK/BL BLD/BY/CCM FDR/JBR/KA20 KS/KT/SBR/SCR/SDR TLD/TR/TVD				EX	EIS-5154-TUFF	9-12552-240-0 1-12552-025-0 5-12552-005-0 5-12552-025-0 5-12552-030-0 5-12552-031-0	37,50	9,00	127,80	45	F	CG
				EX	EIS-5181-TUFF (With Carbon Scraper)	5-12552-042-0 5-12552-023-0 5-12552-036-0 5-12552-043-0 5-12552-048-0 8-94333-114-0 8-94461-958-0 8-97028-706-0	37,50	9,00	127,80	45	F	CG
LUV 1800CC FLORIAN GEMINI	72 -	G180 G200	4	IN	IIS-0155-TUFF	9-12551-606-0 9-12551-174-0	43,00	8,00	107,50	45	ST	CG
				EX	EIS-5155-TUFF	9-12552-607-0 9-12552-601-0	33,00	8,00	107,50	45	ST	CG
BELLET 1600CC LUV/TROOPER 1800CC IMPUL/PIAZZA 2000CC 117 COUPE	66 - 69 - 80 -	G161 G180 G200	4 4 4	IN	IIS-0156-TUFF	8-94205-977-0 8-94200-742-0	42,40	8,00	109,50	45	ST	NG
				EX	EIS-5156-TUFF	8-94200-743-0 8-94200-745-0 8-94212-835-0	34,00	8,00	110,90	45	ST	NG
BELLET 1600CC	63 -	G130 G150 G161	4 4 4	IN	IIS-0157-TUFF	5-12551-005-0 9-12551-050-0	38,00	8,00	109,80	45	F	CG
				EX	EIS-5157-TUFF	9-12552-098-0 9-12552-128-0 9-12552-129-0	30,00	8,00	108,50	45	F	CG
TRUCK/BUS 6300CC 6100CC	56 - 56 -	DA640 DA120	6 6	IN	IIS-0158-TUFF	9-12551-022-0 9-12551-072-0 9-12551-073-0	44,00	10,00	144,00	45	F	NG
TXD10/60 BA343/BR/BB				EX	EIS-5158-TUFF	9-12552-150-0 9-12552-035-0 9-12552-054-0 9-12552-102-0 9-12552-105-0	40,00	10,00	144,00	45	F	NG
TRUCK/BUS 6300CC 6100CC	66 - 66 -	DA640 DA120	6 6	IN	IIS-0159-TUFF	9-12551-071-0	44,00	10,00	143,80	45	F	NG
				EX	EIS-5159-TUFF	9-12552-103-0 9-12552-151-0	40,00	10,00	144,10	45	F	NG

TXD30/70 BA351/BR351/BB351						9-12552-121-0 9-12552-157-0							
TRUCK/BUS 6300CC 6100CC 4000CC	73 - 73 - 65 -	DA640 DA120 DA220 DA640T	6 6 4	IN	IIS-0160-TUFF	1-12551-002-0 1-12551-013-0 1-12551-008-0 1-12551-003-0	45,50	10,00	144,00	45			
BA/BR/BF TSD/TWE/TXD SFR/BXD				EX	EIS-5160-TUFF	1-12552-001-0 1-12552-007-0 1-12552-003-0	42,00	10,00	144,00	45			
TRUCK/BUS 6300CC 6100CC	69 - 69 -	DA640 DA210	6 6	IN	IIS-0161-TUFF	9-12551-132-0 9-88511-175-0 9-12551-125-0 9-88511-175-0	44,10	10,00	144,00	45	F	2CG	
TSD/TWD/TXD BXD BA/BF/BR				EX	EIS-5161-TUFF	9-12552-217-0 9-88511-176-0 9-88511-178-0 9-12552-169-0 9-12552-208-0 9-12552-177-0	40,10	10,00	144,10	45	F	2CG	
TRUCK/BUS 10200CC	63 -	DH100	6	IN	IIS-0162-TUFF	9-12551-030-0 9-12551-077-0	54,00	12,00	164,00	45	F	NG	
TD40/90 TP60/70/80				EX	EIS-5162-TUFF	9-12552-154-0 9-12552-207-0 9-12552-089-0 9-12552-049-0 9-12552-061-0 9-12552-111-0 9-12552-127-0	48,00	12,00	164,00	45	F	NG	
TRUCK/BUS 10200CC	70 -	DH100	6	IN	IIS-0163-TUFF	9-12551-188-0 9-12551-188-1 9-12551-197-1	54,00	12,00	164,00	45	F	2CG	
SLR TD/RD/CCH/RH				EX	EIS-5163-TUFF	9-12552-251-0 9-12552-251-1 9-12552-251-2	48,00	12,00	164,00	45	F	2CG	
TRUCK/BUS 9200CC 11000CC 10200CC	68 - 80 - 80 -	D920 E110 6QA1	6 6 6	IN	IIS-0164-TUFF	9-12551-150-0 9-12551-120-0 9-12551-109-0 1-12551-105-0	56,00	12,00	163,00	60	F	2CG	
TD/TDJ BU/CTM				EX	EIS-5164-TUFF	9-12552-254-0 9-12552-198-0 9-12552-168-0 9-12552-262-0 9-12552-262-1/2 9-12552-167-0 9-12552-167-1 9-12552-179-0/1	51,00	12,00	163,00	60	F	2CG	
TRUCK/BUS 12000CC	73 -	E120	6	IN	IIS-0165-TUFF	1-12551-004-0 1-12551-025-0	47,00	10,00	164,00	45			
		6RA1 6RB1	6 6	IN	IIS-0177-TUFF	1-12551-047-0 1-12551-057-0 1-12551-129-0	46,00	11,00	165,40	60			
SPG/SPK/SPM/SPR TG/TMK/BU/CPA				EX	EIS-5165-TUFF	1-12552-006-0 1-12552-012-0 1-12552-013-0 1-12552-028-0	45,00	11,00	164,00	45			
TRUCK/BUS 12000CC	75 -	E120	6	IN	IIS-0166-TUFF	9-12551-192-0 1-12551-010-0	47,00	11,00	164,00	45	F	2CG	
BUK/VPZ				EX	EIS-5166-TUFF	9-12552-256-0 1-12552-010-0 9-12552-010-0	45,00	11,00	164,00	45	F	2CG	
TRUCK/BUS 8000CC 10000CC 12000CC	76 - 10 12	8PA1 10PA1 12PA1	8 10 12	IN	IIS-0167-TUFF	1-12551-030-0 1-12551-005-1 1-12551-030-1	48,00	10,00	159,00	45	F	CG	
SKS/SKW/SVZ/SRG		8PB1 10PB1 12PB1	12 8 10	EX	EIS-5167-TUFF	1-12552-005-0 1-12552-015-0 1-12552-015-4	46,20	10,00	159,00				

VTR/VTZ/VVR/CXZ/ CXM			12PC1	12														
TRUCKTOR 1650CC	70 -	V170	8	IN	IIS-0168-TUFF	9-12551-177-0	49,00	11,00	162,00	60	F	2CG						
TV30ES/TV30ZE/TV40ZB				EX	EIS-5168-TUFF	9-12551-182-0 1-12552-244-0	45,00	11,00	162,00	60	F	2CG						
TRUCK/BUS 4000CC	65 -	D400	6	IN	IIS-0169-TUFF	9-12551-142-0	43,00	9,00	127,80	45	F	CG						
TY20/40/B30				EX	EIS-5169-TUFF	9-12552-143-0 9-12552-131-0	35,00	9,00	128,00	45	F	CG						
LUV 1600CC	80 -	G161	4	IN	IIS-0170-TUFF	8-94217-178-0	40,40	8,00	110,70	45	ST	NG						
FASTER 1800CC		G180		EX	EIS-5170-TUFF	8-94217-179-0	34,00	8,00	109,20	45	ST	NG						
KB 2000CC		G200				8-84119-147-0												
GEMINI 1800CC	82 -	4FB1	4	IN	IIS-0171-TUFF	8-94216-589-0	38,90	8,00	132,30	45	F	CG						
ASKA 2000CC	82 -	4FC1	4	EX	EIS-5171-TUFF	8-94216-590-0	34,00	8,00	132,20	45	F	CG						
WFR 2200CC	83 -	4FD1	6			8-94108-307-0												
JJ/WFR/PFD																		
JOURNEY 2000CC	71 -	C190	4	IN	IIS-0172-TUFF	5-12551-028-0	40,00	8,00	115,90	45	F	CG						
TROOPER 2200CC	79 -	C223	4			5-12551-030-0												
ELF 2400CC	69 -	C240	4			8-94029-351-0 9-12551-028-0												
LUV				EX	EIS-5172-TUFF	5-12552-034-0	34,00	8,00	116,00	45	F	CG						
PAD/UBS/KAD/TLD						5-12552-038-0 8-94029-352-0												
TRUCK 6100CC	56 -	DA120	6	IN	IIS-0179-TUFF	9-12551-001-0	44,00	10,00	140,20	45	F	RC/PG						
TWD				EX	EIS-5179-TUFF	9-12552-016-0	40,00	10,00	140,00	45	F	RC/PG						
ELF 2000CC	78 -	G200	4	IN	IIS-0180-TUFF	9-12551-045-0	42,00	8,00	115,80	45	ST	CG						
TLG				EX	EIS-5180-TUFF	9-12552-132-0	34,00	8,00	115,80	45	F	CG						
FARGO 1600CC	81 -	4ZA1	4	IN	IIS-0183-TUFF	8-94232-096-0	40,30	8,00	110,70	45	F	NG						
ASKA 1800CC	81 -	4ZB1	4			8-94251-273-0												
JJ110/WFR10				EX	EIS-5183-TUFF	8-94214-920-0 8-94251-274-0 8-94460-637-0 8-94453-404-0	34,00	8,00	110,20	45	F	NG						
TRUCK 6500CC	84 -	6BG1	6	IN	IIS-0184-TUFF	1-12551-081-0	46,00	9,00	127,90	45	F	CG						
						1-12551-063-0 1-12551-082-0 1-12551-083-0 1-12551-139-0												
				EX	EIS-5184-TUFF	1-12552-027-0	37,50	9,00	127,80	45	F	CG						
				EX	EIS-5199-TUFF	1-12552-079-0 1-12552-083-0 1-12552-052-0 1-12552-080-0	37,50	9,00	127,90	45	F	CG						
ETRI2/FSR12 LT312/LR312																		
ASKA 2000CC	83 -	4ZC1	4	IN	IIS-0186-TUFF	8-93251-275-0	42,30	8,00	110,70	45	F	NG						
IMPULSE 8-94153-969-0		4ZD1		EX	EIS-5186-TUFF	8-94251-276-0 8-94136-727-0 8-94251-440-0 8-94251-044-0 8-94441-051-0 8-94441-074-0 8-97119-751-0	36,00	8,00	110,20	45	F	NG						
TROOPER																		
JJ120																		
GEMINI 1500CC	85 -	4XC1	4	IN	IIS-0190-TUFF	8-94250-977-0	36,00	7,00	105,20	45	F	CG						
I-MARK 8-94151-069-0		4XE1	4	EX	EIS-5190-TUFF	8-94250-978-0 8-94145-949-0	31,00	7,00	105,20	45	F	CG						
JT190/LN		(16)																
ELF 2500CC	84 -	4JA1	4	IN	IIS-0192-TUFF	8-94133-275-1	40,00	8,00	118,20	45	F	CG						
2700CC	84 -	4JB1	4			8-94133-275-0 8-94464-921-0 9-97010-464-0												
NHR54/55				EX	EIS-5192-TUFF	8-94247-875-1	35,70	8,00	118,00	45	F	CG						
WHR55/TFR55/TES55						8-94133-875-1 8-94433-245-0 8-97010-463-0												

TROOPER UBS17	2600CC	88 -	4ZE1	4	IN EX	IIS-0195-TUFF EIS-5195-TUFF	8-94447-025-0 8-94447-026-0	44.20 37.00	8.00 8.00	108.60 108.20	45 45	ST F			
TROOPER UBS16	2300CC 2600CC	86 -	4ZD1 4ZE1	4	IN EX	IIS-0197-TUFF EIS-5197-TUFF	8-94174-222-1 8-94174-223-1 8-97110-256-0	44.20 37.00	8.00 8.00	108.60 108.20	45 45	ST ST	NG NG		
ELF NKR58	1500CC	82 - 85 -	4FA1 4FE1	4	IN EX	IIS-0198-TUFF EIS-5198-TUFF	5-12551-033-2 5-12552-040-2	31.00 26.00	8.00 8.00	132.40 132.50	45 45	F F	CG CG		
GEMINI-D JT600	1500CC	86 -	4EC1	4	IN EX	IIS-0200-TUFF EIS-5200-TUFF	8-94370-173-1 8-94110-016-0 8-94110-017-4	34.50 30.60	7.00 7.00	104.10 104.00	45 45	F F	CG CG		
ELF NPR59	3800CC	86 -	4BD1	4	IN EX	IIS-0203-TUFF EIS-5203-TUFF	8-94414-833-1 8-97034-379-0 8-97028-961-0 8-94333-115-0 8-94414-834-0 8-97028-707-0	45.00 37.50	9.00 9.00	127.70 127.70	45 45	F F	CG CG		
FARGO WFR51	1995CC	82 -	4FG1	4	IN EX	IIS-0205-TUFF EIS-5205-TUFF	8-94449-047-0 8-94449-048-0	39.00 34.00	8.00 8.00	134.30 134.60	45 45	F F	CG CG		
LUV KBD23/TFR54	2500CC	88 -	4JA1	4	IN EX	IIS-0208-TUFF EIS-5208-TUFF	8-94171-291-0 8-94171-292-0	38.00 32.00	8.00 8.00	118.80 118.80	45 45	F F	CG CG		
ELF KPT59	4200CC	89 -	4HF1	4	IN EX	IIS-0209-TUFF EIS-5209-TUFF	8-97033-864-1 8-97060-415-0 8-97019-337-0	50.00 42.00	9.00 9.00	141.00 140.50	45 45	F F	CG CG		
TRUCK FTR FVR	8200CC		6BE1 6SA1 6HE1	6	IN	IIS-0210-TUFF	1-12551-111-0	49.00	10.00	134.00	45	F	CG		
TRUCK FTR FVR	8200CC		6HE1 6HH1	6	IN EX	IIS-0211-TUFF EIS-5211-TUFF	8-94394-160-1 8-94395-462-0	51.00 42.00	9.00 9.00	141.00 140.80	45	F	CG		
TRUCK FVR23D	9800CC		6SA1 6SDA	6	IN IN EX	IIS-0212-TUFF IIS-0216-TUFF EIS-5212-TUFF	1-12551-089-0 1-12551-158-0 1-12552-085-0 1-12552-108-0 1-12552-063-0	48.00 50.00 46.10	10.00 10.00 10.00	132.00 132.00 132.00	45 45 45	F F F	CG CG CG		
			4FE1	4	IN EX	IIS-0213-TUFF EIS-5213-TUFF	8-94178-102-2 8-94410-960-2	31.00 26.00	8.00 8.00	134.50 134.30	45 45	F F	CG CG		
TROOPER V6 UBS25	3200CC		6VD1 (24)	6	IN EX	IIS-0214-TUFF EIS-5214-TUFF	8-97027-449-1 8-97014-174-0	34.00 30.00	6.00 6.00	114.00 99.50	45 45	ST ST	CG CG		
TRUCK	9800CC		6SA1	6	IN EX	IIS-0202-TUFF EIS-5202-TUFF	1-12551-092-0 1-12551-136-0 1-12552-050-0	49.00 46.00	10.00 10.00	134.00 132.00	45 45	F F	CG CG		
TRUCK CXH/CXM CXZ	17000CC		10PD1	10	IN EX	IIS-0215-TUFF EIS-5215-TUFF	1-12551-136-0 1-12552-097-0 1-12552-064-0	50.00 46.10	10.00 10.00	159.20 159.20	45 45	F F	CG CG		
TROOPER	3200CC		6VD1 (24)	V6	IN IN EX	IIS-0217-TUFF IIS-0128-TUFF EIS-5217-TUFF	8-97015-546-2 8-97169-807-0 8-97015-547-1	34.00 34.00 30.00	6.00 6.00 6.00	99.10 104.00 100.60	45 45 45	ST ST ST	CG CG CG		
TROOPER	3000CC		4JG2	4	IN EX	IIS-0219-TUFF EIS-5219-TUFF	8-97131-729-0 8-97043-861-1	42.20 35.70	8.00 8.00	117.60 117.00	45 45	F F	CG CG		
TROOPER	3200CC		6VD1 24	V6	IN EX	IIS-0222-TUFF EIS-5222-TUFF	8-97131-961-0 8-97131-962-0	34.00 29.00	6.00 6.00	103.70 103.60	45 45	ST ST	CG CG		
BIGHORN		91 -	4JG2	4	IN	IIS-0121-TUFF	8-94363-134-0	42.00	8.00	118.50	45	ST	CG		

WIZARD NU DIESEL TURBO				EX	EIS-5220-TUFF	8-97118-767-0	35,80	8,00	117,60	45	ST	CG
D MARKS PICK UP	2200CQ00 -	22LE (C22NE)	4	IN	IIS-0224-TUFF	8-90220-121-0	41,80	7,00	103,80	45	ST	CG
				EX	EIS-5224-TUFF	8-90323-757-0	36,50	7,00	103,50	45	ST	CG
NKR		6HE1 4HE1	6 4	IN	IIS-0223-TUFF	8-94395-113-1	46,50	9,00	141,00	60	ST	CG
TRUCK		6SD1	6	IN	IIS-0225-TUFF	1-12551-126-1	51,00	10,00	133,50	60	ST	CG
NHR		4HF1	4	IN	IIS-0226-TUFF	8-97171-398-0	51,00	9,00	141,00	45	ST	CG
				EX	EIS-5226-TUFF	8-97171-399-0	42,00	9,00	140,60	45	ST	CG

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MAZDA/FORD

Vehicle Model	Year	Engine Type	Cyl. No.	IN EX	NPC No.	Reference No.	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Head Style	Stem End	
PROCEED BUG61/DUC	1500CC	60 -	UA	4	IN	IMZ-0251-TUFF	0107-12-111	37,50	9,10	114,50	45	ST	CG
					EX	EMZ-5251-TUFF	0107-12-121	30,00	9,00	115,00	45	ST	CG
FAMILIA(323)	1500CC	66 -	UB UC	4	IN	IMZ-0252-TUFF	0222-12-111	38,00	8,00	107,80	45	ST	CG
					EX	EMZ-5252-TUFF	0222-12-121/A	32,00	8,00	106,40	45	F	CG
FAMILIA(323) BONGO(E1000) SPA/FPA	1000CC	68 -	PB	4	IN	IMZ-0254-TUFF	0249-12-111/A 0259-12-111	31,90	7,00	107,80	45	ST	CG
					EX	EMZ-5254-TUFF	0249-12-121/A 0259-12-121	27,50	7,00	98,60	45	F	CG
FAMILIA(323) BT55/65	1200CC	68 -	TA TB	4	IN	IMZ-0255-TUFF	0268-12-111/A	34,00	7,10	108,00	45	ST	CG
					EX	EMZ-5255-TUFF	0268-12-121/A	29,00	7,00	98,70	45	F	CG
FAMILIA(323) PRESTO SPC, FA3	1000CC	70 -	PC	4	IN	IMZ-0256-TUFF	0317-12-111/A	35,00	8,00	106,20	45	ST	CG
					EX	EMZ-5256-TUFF	0317-12-121/A 0483-12-121	30,00	8,00	103,30	45	ST	CG
FAMILIA(323) LASER BONGO BD/FA/ST/BTA SS	1300CC 1500CC	70 - 78 - 80 - 80 -	TC UC E3 E5	4	IN	IMZ-0257-TUFF	0324-12-111/A E301-1-111 E501-12-111	36,00	8,00	105,50	45	ST	CG
					EX	EMZ-5257-TUFF	0324-12-121 0488-12-121 8572-12-121 E301-12-121 E501-12-121 D303-12-121	31,00	8,00	103,50	45	F	CG
CAPELLA (806/626) 1800CC LUCE(929) COSMO(121) 1600CC T2000/B2000 B1600/E1600 B1800 COURIER	2000CC 1800CC	77 - 69 -	MA VB VC NA	4	IN	IMZ-0258-TUFF	0290-12-111 0453-23-255 D27Z-6507A	42,00	8,10	108,40	45	ST	CG
					EX	EMZ-5258-TUFF	0305-12-121/A 0290-12-121/A 8173-12-121 HE19-12-121 D27Z-6505A 0453-23-256	33,00	8,10	107,00	45	ST	CG
LUCE DIESEL E2200/B2200 2500CC E2500/T2500 4000CC T4100	2200CC 2500CC 4000CC	79 - 67 - 72 -	S2 XA ZB	4 4 6	IN	IMZ-0259-TUFF	0636-12-111	40,50	8,00	114,50	45	F	CG
					EX	EMZ-5259-TUFF	0636-12-121	35,50	8,00	114,50	45	F	CG
					EX	EMZ-5266-TUFF	0527-12-121	36,00	8,00	114,70	60	F	CG
E2000 T2000	2000CC	71 -	VA	4	IN	IMZ-0260-TUFF	0552-12-111	39,50	8,00	112,50	45	ST	CG
					EX	EMZ-5260-TUFF	0552-12-121/A	30,00	8,00	112,50	45	F	CG
E3000 T3000	3000CC	77 -	HA	4	IN	IMZ-0263-TUFF	SE01-12-111	45,00	9,00	114,60	45	F	CG
					EX	EMZ-5263-TUFF	SE01-12-121	37,40	9,00	114,60	60	F	CG
E2000 FORD E2300 USA ONLY	2300CC	77 -	WA	4	IN	IMZ-0264-TUFF	D6FZ-6507A D9ZZ-6507A	44,10	8,70	121,80	45	ST	4CG
					EX	EMZ-5264-TUFF	D6FZ-6505A	38,10	8,70	122,20	45	ST	4CG
CAPELLA(626) TELSTER 2000CC BONGO(E2000) LUCE(929)	1800CC 2000CC	82 - 84 -	F8 FE	4 4	IN	IMZ-0275-TUFF	F801-12-111/A	44,00	8,00	112,00	45	ST	CG
					EX	EMZ-5275-TUFF	F801-12-121/A F804-12-121/A	36,00	8,00	111,70	45	ST	CG
CAPELLA(626) TELSTER	1600CC	82 -	F6	4	IN	IMZ-0277-TUFF	F601-12-111/A	41,00	8,00	112,00	45	ST	CG
					EX	EMZ-5277-TUFF	F601-12-121 F604-12-121 F606-12-121	34,00	8,00	111,80	45	F	CG
BONGO CAPELLA	2200CC 2000CC	83 - 83 -	R2 RF	4 4	IN	IMZ-0278-TUFF	RF01-12-111	41,00	8,00	107,00	45	F	CG
					EX	EMZ-5278-TUFF	RF01-12-121/B	36,00	8,00	106,80	45	ST	CG
FAMILIA(323) LASER FESTIVA(121)	1100CC 1300CC	89 -	B1 B3	4 4	IN	IMZ-0279-TUFF	B660-12-111	31,00	6,00	105,30	45	ST	CG
					EX	EMZ-5279-TUFF	B660-12-121	26,20	6,00	105,40	45	ST	CG

T3500	3500CC	90 - 94	SL	4	IN	IMZ-0280-TUFF	SL01-12-111/A	45,40	9,00	114,60	45	F	CG
					EX	EMZ-5280-TUFF	SL01-12-121 SL70-12-121	38,30	9,00	114,60	60	F	CG
T2500	2500CC	89 -	XA	4	IN	IMZ-0281-TUFF	S501-12-111	40,50	9,00	114,60	45	F	CG
					EX	EMZ-5281-TUFF	S501-12-121	36,10	9,00	114,60	60	F	CG
FAMILIA(323) LASER	1300CC 1500CC	89 - 89 -	E3 E5	4	IN	IMZ-0282-TUFF	E5D3-12-111	36,00	8,00	108,50	45	F	CG
					EX	EMZ-5282-TUFF	E358-12-121 E503-12-121	31,00	8,00	106,50	45	F	CG
FAMILIA(323) LASER without TURBO	1500CC 1600CC	89 - 89 -	B5 B6	4	IN	IMZ-0283-TUFF	B630-12-111	38,00	7,00	103,90	45	ST	CG
					EX	EMZ-5283-TUFF	B630-12-121	32,00	7,00	102,70	45	ST	CG
FAMILIA(323) LASER with TURBO	1500CC 1600CC	89 - 89 -	B5 B6	4	IN	IMZ-0284-TUFF	B6S7-12-111 B695-12-111	31,00	6,00	105,50	45	ST	CG
					EX	EMZ-5284-TUFF	B695-12-121 BJ01-12-121	26,20	6,00	105,50			CG
CAPELLA(626) LUCE(929) MX-9 PROOBE	2200CC	90 -	F2	4	IN	IMZ-0285-TUFF	F201-12-111 F202-12-111	32,50	7,00	115,90	45	ST	CG
					EX	EMZ-5258-TUFF	F201-12-121/A F210-12-121	34,00	7,00	116,30	45	ST	CG
LUCE(929) MPV	3000CC	90 -	JE	V6	IN	IMZ-0286-TUFF	JE01-12-111	33,00	7,00	121,50	45	ST	CG
					EX	EMZ-5286-TUFF	JE01-12-121 JE06-12-121	38,00	8,00	122,70	45	ST	CG
B2600	2600CC	90 -	G6	4	IN	IMZ-0287-TUFF	G601-12-111	33,30	7,00	112,70	45	ST	CG
					EX	EMZ-5287-TUFF	G601-12-121 G602-12-121	36,00	7,00	113,80	45	ST	CG
323 LASER	90 -		B3	4	IN	IMZ-0290-TUFF	B301-12-111	32,00	7,00	105,30	45	ST	CG
					EX	EMZ-5290-TUFF	B301-12-121	28,00	7,00	104,30	45		CG
KIA PRIDE	90 -		B3		IN	IMZ-0290-TUFF	KK153-12-111	32	7	105,3	45	ST	CG
					EX	EMZ-5291-TUFF	KK150-12-121	28,00	7,00	104,20	45	ST	CG
FAMILIA(323) LASER	1600CC	90 -	B6	4	IN	IMZ-0292-TUFF	B541-12-111	29,60	6,00	103,90	45	ST	CG
					EX	EMZ-5292-TUFF	B541-12-121 B62A-12-121	23,50	6,00	105,00	45	ST	CG
CAPELLA TELSTER 323	1800CC (SOHC)	90 -	BP	4	IN	IMZ-0293-TUFF	BP01-12-111	30,00	6,00	102,00	45	ST	CG
					EX	EMZ-5293-TUFF	BP01-12-121	25,00	6,00	103,00	45	ST	CG
MX-5 MIATA	1800CC (DOHC)	90 -	BP	4	IN	IMZ-0294-TUFF	BP05-12-111 BP06-12-111	33	6	102	45	ST	CG
					EX	EMZ-5294-TUFF	BP05-12-121	28	6	102	45	ST	CG
323 LASER	1300CC	91 -	B3	4	IN	IMZ-0296-TUFF	B3C7-12-111/A	25,50	6,00	108,30	45	ST	CG
					EX	EMZ-5296-TUFF	B3C7-12-121 B3D2-12-121	21,50	6,00	109,30	45	ST	CG
					IN	IMZ-0297-TUFF	4786-12-111						
					EX	EMZ-5297-TUFF	4786-12-121						
626	2000CC	87 -	FE	4	IN	IMZ-0299-TUFF	FE3N-12-111	33,70	6,00	103,20	45	ST	CG
					EX	EMZ-5299-TUFF	FE3N-12-121	29,00	6,00	104,50	45	ST	CG
KIA VESTA	2700CC	95 - 99		4	IN	IMZ-0300-TUFF	VN01-12-111	41,00	9,00	114,50	45	F	CG
					EX	EMZ-5300-TUFF	VN01-12-121	35,00	9,00	114,70	45	F	CG
MS-6 626	2200CC	92 -	FS	4	IN	IMZ-0302-TUFF	FS01-12-111	31,50	6,00	90,00	45	ST	CG
					EX	EMZ-5302-TUFF	FS01-12-121 FS05-12-121	27,60	6,00	90,00	45	ST	CG
T4000	4000CC	89 -	TF	4	IN	IMZ-0303-TUFF	TF20-12-111	47,00	9,00	119,70	45	F	CG
					EX	EMZ-5303-TUFF	TF20-12-121	41,00	9,00	119,30	45	F	CG
E2500	2500CC	96 -	WL	4	IN	IMZ-0304-TUFF	WL01-12-111	32,70	7,00	111,90	45	ST	CG

B2500 B2900	2900CC		W9										
					EX	EMZ-5304-TUFF	WL01-12-121 WL51-12-121	35,00 26,20	7,00 6,00	111,90 105,40	45	ST	CG
MX-5 MS-8	2500CC (DOHC)	91 -	KL (24)	V6	IN	IMZ-0306-TUFF	KL01-12-111	32,00	6,00	94,30	45	ST	CG
					EX	EMZ-5306-TUFF	KL01-12-121	27,60	6,00	95,20	45	ST	CG
323	1700CC	86 - 95	PN	4	IN	IMZ-0307-TUFF	PN11-12-111	38,00	7,00	101,50	45	ST	CG
					EX	EMZ-5307-TUFF	PN20-12-121	32,00	7,00	101,40	45	ST	CG
323 PROSTAGE	1500CC	95 -	Z5 ⑩	4	IN	OMZ-0313-TUFF	Z501-12-111	27,7	5,5	92,2	45	ST	CZ
					EX	EMZ-5313-TUFF	Z501-12-121	24	5,5	92,8	45	ST	CG
B2000 FAMILIA VAN BONGO WAGON		87 -	RF-T	4	IN	IMZ-0315-TUFF	RF71-12-111	39,4	8	106,8	45	ST	CG
	DIESEL TURBO 2000CC				EX	EMZ-5315-TUFF	RF71-12-121	35,1	8	106,8	45	ST	CG

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MITSUBISHI

Vehicle Model	Year	Engine Type	Cyl. No.	IN EX	NPC No.	Reference No.	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Head Style	Stem End
GALANT 1600CC ARROW 1400CC COLT/LANCER A53/L021/A55/A75 T22	75 -	4G32 4G33 4G35 4G36	4	IN	IMB-0302-TUFF	MD000480 MD064871	38,00	8,00	106,00	45	ST	MG
				EX	EMB-5302-TUFF	MD000481 MD002481 MD007783	31,00	8,00	102,50	45	F	MG
GALANT 1850CC CANTER 2000CC ROSA/L200 2400CC 1800CC 2000CC T217/FG30/E15A/33 A114/122/132/163 A57/115/123/133/L022	73 -	4G51	4	IN	IMB-0303-TUFF	MD020580 MD024523 MD040791	43,00	8,00	112,80	45	T	NG
	73 - 75 -	4G52 4G53		EX	EMB-5303-TUFF	MD020581 MD020583 MD020586 MD020587 MD020588 MD020589 MD024586	35,00	8,00	111,70	45	F	NG
LACER 1400CC GALANT 1200CC DELICA(L300) A61/TT120/121/FG14/15	71 -	4G41	4	IN	IMB-0304-TUFF	MD010480	37,00	8,00	100,60	45	F	NG
	73 -	4G42		EX	EMB-5304-TUFF	MD010481	29,00	8,00	100,90	45	F	NG
LANCER/MIRAGE 1200C TREDIA/CORDIA 1400C COLT 1300CC PROTON-SAGA 1500C A141/148/151/155/171 A142/149/152/156/171 C11/12	77 -	G11	4	IN	IMB-0305-TUFF	MD016460 MD003787 22211-21010	34,00	6,60	102,00	45	ST	CG
	78 - 83 - 83 -	G12 G13 G15		EX	EMB-5305-TUFF	MD016461 MD003788 22211-21304 22212-21010	30,10	6,60	101,00	45	F	CG
GANTER/ROSA 2700C JUPITER/JEEP 4000C TRUCK FB100/T44/B1#/B360 J24/36/44/J53	70 -	4DR5	4	IN	IMB-0306-TUFF	31304-00100 ME001115 ME001114	41,00	8,00	124,00	45	ST	NG
	70 -	6DR5		EX	EMB-5306-TUFF	31304-01101 31304-01103 ME001116 ME001143	32,00	8,00	124,20	45	F	NG
TRUCK 4700CC BUS 5100CC 5000CC 5400CC T62#/63#/65# FK102/B62#	64 -	6DS1	6	IN	IMB-0307-TUFF	30804-00100 ME020236 ME023881	46,00	9,00	137,00	45	F	CG
	72 - 69 - 72 -	6DS3 6DS5 6DS7 4D30 4D32 4D34T		EX	EMB-5307-TUFF	30804-01100/1 ME021039 ME023882	37,00	9,00	137,00	45	F	MG
TRUCK 10000CC BUS 13000CC 18000CC T800/900/FP FV/K300 B800/MS504	68 -	6DC2	6	IN	IMB-0308-TUFF	31104-00101 31204-01201 ME061546	62,00	12,00	174,50	45	F	MG
	8 10	8DC2 10DC6		EX	EMB-5308-TUFF	31104-01103 31204-70200 31204-71101 ME051064	50,00	12,00	175,00	45	F	MG
CANTER 1500CC 2000CC 2700CC T720/T90/92/94	62 -	4DQ3	4	IN	IMB-0309-TUFF	30604-00100 30604-00102	40,00	8,00	118,00	45	F	NG
	68 - 68 -	4DQ5 4DR1		EX	EMB-5309-TUFF	30604-01101 30604-01103	31,00	8,00	118,00	45	F	NG
CANTER 2600CC ROSA	70 -	KE42	4	IN	IMB-0310-TUFF	MD014560	43,00	8,70	108,70	45	F	NG
		KE47		EX	EMB-5310-TUFF	MD014565	33,00	8,70	108,70	45	F	NG
TRUCK 6000CC BUS 6700CC 6600CC T654/FK103/104 MM504/MK103	74 -	6D10	6	IN	IMB-0311-TUFF	ME031297 ME031938	47,00	9,00	137,00	45	F	NG
	74 - 75 -	6D11 6D14T 6D16T 4D30 4D33		EX	EMB-5311-TUFF	ME031154 ME031940	40,00	9,00	137,10	45	F	NG

TRUCK BUS T330/480 4K100/120 B820/MR410	8600CC 11400CC	65 - 65 - 65 -	6DB1 6DB6 8DB 4D31T	6	IN	IMB-0312-TUFF	30004-23101 30004-23103	53,00	12,00	176,50	45	F	MG
				6	EX	EMB-5312-TUFF	30004-31101 30004-35101 30004-35103 30004-31201	45,00	12,00	176,50	45	F	MG
CANTER TRUCK FE111/121/211/301 T652/653/B623	3300CC 3300CC 5400CC	78 - 78 - 72 -	4D30 4D31 6DS7	4	IN	IMB-0313-TUFF	ME011244 ME011265 ME029006 ME013810	44,00	9,00	137,10	45	F	NG
				4 6	EX	EMB-5313-TUFF	ME011245 ME011266 ME029007 ME013832	37,00	9,00	137,10	45	F	NG
TRUCK BUS MP117/FP117	10000CC 10000CC 11100CC	67 - 79 - 79 -	6D20 6D21 6D22	6	IN	IMB-0314-TUFF	ME051063 30904-00302 30904-00401 ME051696	55,10	12,00	174,80	45	F	MG
				6 6	EX	EMB-5308-TUFF	31104-01103 31204-70200 31204-71101 ME051064 ME051567 ME051697	50,00	12,00	175,00	45	F	MG
TRUCK BUS FK/FM	6900CC	79 - 79 -	6D15	6	IN	IMB-0315-TUFF	ME031937 ME031557	49,00	9,00	137,00	45	FR	NG
					EX	EMB-5315-TUFF	ME031939 ME031558	42,00	9,00	137,20	45	FR	NG
TRUCK BUS FP/FR/FT/FU/FV NV/B/MS	14000CC 15000CC 16000CC 18600CC	76 - 76 - 79 - 72 -	8DC7 8DC8 8DC9 10DC	8	IN	IMB-0316-TUFF	ME061545 31204-30200 ME091558	59,00	12,00	174,60	45	FR	NG
				8 8 10	EX	EMB-5316-TUFF	ME061547 ME065587 31204-31200 ME091559	53,00	12,00	175,30	45	FR	NG
DEBONAIR SAPPORO GALANT L200/CANTER A165A/K33T/FC312	2600CC	76 - 76 -	4G54	4	IN	IMB-0318-TUFF	MD024518 MD024638	46,00	8,00	110,20	45	T	NG
					EX	EMB-5318-TUFF	MD024519 MD024548	38,00	8,00	108,10	45	FR	NG
GALANT PAJERO/MONTERO LANCER CORDIA/TREDIA SPACE WAGON L200/L300 STARION E13/L035/A163/183	1800CC 2000CC	85 - 85 -	4G62 4G63	4	IN	IMB-0319-TUFF	MD070691	43,00	8,00	110,10	45	ST	CG
				4	EX	EMB-5319-TUFF	MD070694 MD070693	35,00	8,00	108,80	45	F	CG
CANTER L200/300 PAJERO/MONTERO CANTER L028/L038/L043/048 FB433	2400CC	80 - 80 -	4D55	4	IN	IMB-0320-TUFF	MD050100 MD050552	40,00	8,00	136,50	45	F	NG
					EX	EMB-5320-TUFF	MD050101 MD050543	34,00	8,00	136,50	45	F	NG
COLT/LANCER GALANT SPACE WAGON C14A/54A/64A E14/34/D09W	1800CC	84 - 84 -	4D65 6D22	4	IN	IMB-0321-TUFF	MD070767	36,00	8,00	118,60	45	F	CG
					EX	EMB-5321-TUFF	MD070769/8 MD072481 MD080778	32,00	8,00	119,10	45	F	CG
JET VALVE AUXILIARY USE	84 - 84 -	G54 G62 G63			IN	IMB-0322-TUFF	MD005948	40,00	7,20	105,00	45	F	CG
					EX	EMB-5322-TUFF	ME005949	33,00	8,00	103,30	45	F	CG
						IMB-0323-TUFF	MD009440						

GALANT E31/32	1600CC	88 -	G32	4	IN	IMB-0324-TUFF	MD075924	38,00	8,00	103,40	45	ST	CG
					EX	EMB-5324-TUFF	MD075928	31,00	8,00	100,00	45	F	CG
GALANT COLT SPACE WAGON TREDIA/CORDIA E12/32A/A215 C77/D05V	1800CC	83 -	G37B 4G37	4	IN	IMB-0328-TUFF	MD069806 MD080780	42,00	8,00	98,30	45	ST	CG
					EX	EMB-5328-TUFF	MD070791 MD069807	34,00	8,00	95,50	45	F	CG
					EX	EMB-5330-TUFF	31101-00342						
GALANT PAJERO/MONTERO L200/L300 K33T/L042G/47G	2600CC	83 -	G54B	4	IN	IMB-0333-TUFF	MD083848 MD083849	46,00	8,00	108,20	45	ST	CG
					EX	EMB-5333-TUFF	MD083850 MD083851 MD092999	38,00	8,00	106,10	45	FR	CG
					EX	EMB-5334-TUFF	MD094619	38,00	8,00	106,10	45	FR	CG
PAJERO DIESEL GALANT L200/L300	2300CC	84 -	4D55 4D56	4	IN	IMB-0338-TUFF	MD083657 MD083661	40,00	8,00	136,60	45	F	CG
					EX	EMB-5338-TUFF	MD083659 MD083662	34,00	8,00	136,60	45	F	CG
JET VALVE					IN	IMB-0340-TUFF	MD088380						
FORKLIFT			S4E		IN	IMB-0341-TUFF	34404-10100	42,00	8,00	132,90	45	F	NG
					EX	EMB-5341-TUFF	34404-11100	35,00	8,00	133,00	60		NG
PAJERO(Montero)3000CC GTO DIAMANTE/SIGMA DEBONAIR L141/146/Z16/S22	3000CC	86 -	6G72	V6	IN	IMB-0343-TUFF	MD088811 MD301339	43,00	8,00	103,00	45	F	CG
					EX	EMB-5343-TUFF	MD088812 MD096219 MD301340	35,00	8,00	102,70	45	F	CG
GALANT/COLT SONATA C53/63/73	1600CC (DOHC)	88 -	4G61 4G64	4	IN	IMB-0346-TUFF	MD127840 MD127847 22211-33000	34,00	6,60	109,70	45	F	CG
					EX	EMB-5346-TUFF	MD127841 MD127848 22212-33010	30,50	6,60	109,80	45	F	CG
GALANT MAGNA	2400CC	85 -	4G64	4	IN	IMB-0347-TUFF	MD085253	46,00	8,00	107,00	45	F	CG
					EX	EMB-5347-TUFF	MD085254 MD096632	38,00	8,00	105,20	45	F	CG
COLT		89 -	G15	4	IN	IMB-0348-TUFF	MD074628	35,10	6,60	101,60	45	ST	CG
					EX	EMB-5348-TUFF	MD074629	31,00	6,60	100,50	45	ST	CG
LANCER/COLT PROTON-SAGA	1300CC 1500CC	91 -	4G13 4G15	4 4	IN AU	IMB-0350-TUFF IMB-1350-TUFF	MD128434 MD128435	26,00 31,00	6,60 6,60	100,90 100,80	45 45	ST ST	CG CG
					EX	EMB-5350-TUFF	MD149314 MD139755	33,00	6,60	101,10	45	ST	CG
LANCER SPACE WAGON PROTON WARA	1600CC 1800CC	91 - 91 -	4G92 4G93	4	IN EX	IMB-0351-TUFF EMB-5351-TUFF	MD162422 MD162616 MD162423	30,00 27,00	6,00 6,00	110,20 113,70	45 45	ST ST	CG CG
GALANT	2000CC	93 -	4G63 4G64	4	IN	IMB-0352-TUFF	MD159502 MD301193	33,00	6,00	112,20	45	F	CG
					EX	EMB-5352-TUFF	MD197106 MD199193 MD306183 MD310465 MD197097	29,00	5,70	114,30	45	ST	CG
				24									
					IN	IMB-0355-TUFF	30604-51100	31,00	8,00	118,00	45	F	NG
					EX	EMB-5355-TUFF	30604-50100	31,00	8,00	110,00	45	F	NG

CANTER ROSA	2700CC	73 -	4DR	4	IN	IMB-0356-TUFF	ME001663	41,00	8,00	124,00	45	F	NG
					EX	EMB-5356-TUFF	ME001538	32,00	8,00	124,00	45	F	NG
GALANT	1600CC	88 -	G32	4	IN	IMB-0336-TUFF	MD075925	38,00	8,00	103,50	45	F	CG
					EX	EMB-5336-TUFF	MD075927	31,00	8,00	100,00	45	F	CG
WIRA DIESEL LANCER COLT	2000CC		4D68	4	IN	IMB-0361-TUFF	MD186756 MD173602	36,00	8,00	114,30	45	F	CG
					EX	EMB-5361-TUFF	MD173603 MD173604 MD180356	32,00	8,00	113,80	45	F	CG
FORKLIFT			S4S	4	IN	IMB-0360-TUFF	32A04-10100 32A04-00100 32A04-20100	44,00	8,00	120,00	45	F	NG
					EX	EMB-5360-TUFF	32A04-11100 32A04-01100 32A04-21100	35,00	8,00	120,20	45	F	NG
PAJERO MONTERO L146G/V25	3000CC		6G72	6	IN	IMB-0363-TUFF	MD135481 MD135479 MD172315	35,00	6,60	106,40	45	ST	CG
					EX	EMB-5363-TUFF	MD135482 MD135480 MD183730	30,50	6,60	105,50	45	ST	CG
PAJERO MONTERO V36/V46	2800CC 3500CC		4M40	4	IN	IMB-0364-TUFF	ME202687 ME200050	41,00	8,00	108,60	45	F	CG
					EX	EMB-5364-TUFF	ME202688 ME200051	35,00	8,00	108,40	45	F	CG
WIRA LANCER	1500CC		4G91	4	IN	IMB-0365-TUFF	MD162799 MD162780	33,00	6,00	104,20	45	ST	CG
					EX	EMB-5365-TUFF	MD162800 MD162781	28,00	6,00	104,00	45	ST	CG
FORKLIFT			S4S		IN	IMB-0366-TUFF	32C04-00100	40,00	8,00	118,00	45	F	CG
					EX	EMB-5366-TUFF	32C04-01100	31,00	8,00	118,00	45	F	CG
GALANT	2000CC	86 -	6G71	V6	IN	IMB-0367-TUFF	MD094396	36,00	8,00	104,80	45	F	CG
					EX	EMB-5367-TUFF	MD094397	31,00	8,00	104,20	45	F	CG
PAJERO HYUNDAI TERACAN			4D56T 4D56	4	IN	IMB-0369-TUFF	MD198403/4 MD321272 22211-42520	40,00	8,00	130,00	45	F	CG
					EX	EMB-5369-TUFF	MD198405/6 22212-42520	34,00	8,00	130,00	45	F	CG
FORKLIFT					IN	IMB-0370-TUFF	34404-00100	42,00	8,00	133,00	45	F	CG
					EX	EMB-5370-TUFF	34404-01100	35,00	8,00	133,00	45	F	CG
HYUNDAI ACCENT			1300 IN-8 EX-4	4	IN	EMB-0371-TUFF	22211-22003	27,50	6,00	99,00	45	FR	CG
					EX	EMB-5371-TUFF	22212-22011	32,00	6,00	98,50	45	FR	CG
HYUNDAI H100			D4BA D4BB		IN	IMB-0372-TUFF	22211-42200	42,00	8,00	136,00	45	F	CG
					EX	EMB-5372-TUFF	22212-42200	36,00	8,00	136,00	45	F	CG
MINICA	550CC	87 -	3G81	3	IN	IMB-0373-TUFF	MD113238	30,00	6,50	100,60	45	ST	CG
					EX	EMB-5373-TUFF	MD113239	26,00	6,50	100,80	45	ST	CG
GALANT STARWAGON	2500CC	96 -	6G73	V6	IN	IMB-0374-TUFF	MD175527 MD143334 MD165485	33,00	6,50	107,30	45	ST	CG
					EX	EMB-5374-TUFF	MD173932 MD143335 MD165486	28,00	6,50	106,20	45	ST	CG
GALANT	2000CC		6A12	V6	IN	IMB-0376-TUFF	MD160947	31,00	6,00	107,00	45	ST	CG
					EX	MB-5376-TUFF	MD160948	27,00	6,00	105,60	45	ST	CG

				IN	IMB-0377-TUFF	ME017145	49,00	9,00	137,00	45	F	MG
				EX	EMB-5377-TUFF	ME012557	42,00	9,00	137,00	45	F	MG
LANCER C33A		4G18 (16)		IN	IMB-0378-TUFF	MD339752	29,00	5,50	111,80	45	F	CG
				EX	EMB-5378-TUFF	MD339754	25,50	5,50	114,70	45	F	CG
HEAVY IND.		S6F		IN	IMB-0379-TUFF	36704-00401 36704-01401	44,00	8,00	134,20	45	F	NG
				EX	EMB-5379-TUFF	36704-01601	37,00	8,00	134,00	45	F	NG
TRUCK FP DIESEL TURBO	91 -	6D40T	6	IN	IMB-0380-TUFF	ME120529	46	10	185,2	45	F	MG
				EX	EMB-5380-TUFF	ME350711	46	10	185,5	45	F	MG
MINICAB MINICA	660CC	87 -	3G93	3	IN	IMB-0381-TUFF	MD160893 MD189514	25	5	100,3	45	ST CG
					EX	EMB-5381-TUFF	MD163942	21	5	105,8	45	ST CG
EMERADE PROTON	1800CC	92 -	6A11	V6	IN	IMB-0384-TUFF	MD-159744	27,5	6	113,2	45	ST CG
					EX	EMB-5384-TUFF	MD-159745	25	6	116,3	45	ST CG
LANCER MIRAGE PROTON	1600CC	91 -	4G92	4	IN	IMB-0385-TUFF	MD196745 MD198570	33	6	115,7	45	ST CG
					EX	EMB-5385-TUFF	MD199616 MD163033 MD158732	28	6	115	45	ST CG
TRUCK FK	8200CC	93 -	6D17	6	IN	IMB-0387-TUFF	ME170313	81	9	137	45	F MG
					EX	EMB-5387-TUFF	ME170315	44	9	137	45	F MG
FORK			S6B	6	IN	IMB-0388-TUFF	36204-20100	48	10	180	60	F 2CG
					EX	EMB-5388-TUFF	36204-41101	44	10	180	60	F 2CG
MIRAGE LANCER PROTON	1600CC		6A10	V6	IN	IMB-0389-TUFF	MD180556	28	6	107,8	45	ST CG
					EX	EMB-5389-TUFF	MD177568	24	6	106,3	45	ST CG
CAT.			S6A2		IN	IMB-0392-TUFF	32504-00200	54	10	180,2	60	F 2CG
					EX	EMB-5292-TUFF	32504-11201 32504-01200	50	10	180	60	F 2CG
CAT.			S6A2		IN	IMB-0393-TUFF	32504-00100	47,9	10	180	45	F CG
					EX	EMB-5393-TUFF	32504-11102 32704-11102	44	10	180,1	45	F CG
PAJERO L400 MONTERO	3200CC	99 -	4M41	4	IN	IMB-0394-TUFF	ME203101	33	6,5	115,6	45	F CG
					EX	EMB-5394-TUFF	ME203102	31	6,5	115,48	45	F CG
TOWNBOX (MALAYSIAN SPEC)	660CC	99 -	4A30	4	IN	IMB-0395-TUFF	MD191605	22,5	5	100,2	45	ST CG
					EX	EMB-5395-TUFF	MD193165	19,4	5	105,4	45	ST CG

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SUBARU

Vehicle Model	Year	Engine Type	Cyl. No.	IN EX	NPC No.	Reference No.	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Head Style	Stem End
SUBARU 1200CC 1300CC 1400CC AF/AB/AM	71 -	EA62 EA63 EA64 EA65	4	IN	ISB-0601-TUFF	81555-8600 81555-8610 81555-8620 31555-7000	36,60	8,00	#####	45	ST	NG
				EX	ESB-5601-TUFF	81556-8600 81556-8610 31556-7000 41556-3400 41556-7100	32,60	8,00	#####	45	F	NG
SUBARU 1600CC AW/AF/AC/AG/AN	76 -	FA71	4	IN	ISB-0602-TUFF	31555-4300	39,70	8,00	#####	45	ST	NG
				EX	ESB-5602-TUFF	31556-4300 41556-3200 41556-7000 41556-7010	34,60	8,00	#####	45	F	NG
SUBARU 1600CC 76 -	EA71	4	4	IN	ISB-0603-TUFF	31555-4310	39,70	8,00	#####	45	ST	CG
				EX	ESB-5603-TUFF	41556-3220 41556-4310	34,70	8,00	#####	45	ST	CG
SUBARU 1800CC 1600CC	79 -	EA81 EA71	4	IN	ISB-0604-TUFF	31555-7010 49715-5500	36,30	8,00	#####	45	F	CG
				EX	ESB-5604-TUFF	41556-3410 41556-7110	32,60	8,00	#####	45	F	CG
REX 550CC	77 -	EK23	2	IN	ISB-0606-TUFF	41555-5400	35,00	7,00	#####	45	ST	PG
				EX	ESB-5606-TUFF	41556-5400 41556-5500	30,00	7,00	#####	45	ST	PG
SUBARU 1600CC BRAT 1800CC	79 -	EA71 EA81	4	IN	ISB-0607-TUFF	41555-7000 41555-7100	41,40	8,00	#####	45	ST	CG
				EX	ESB-5607-TUFF	41556-7200 41556-7210 41556-7300 41556-7310	35,00	8,00	#####	45	ST	CG
SUBARU 1600CC 1800CC	84 -	EA71 EA81	4	IN	ISB-0612-TUFF	13201-KA062 13201-KA120	29,00	7,00	#####	45	ST	CG
				EX	ESB-5612-TUFF	13202-KA062 13202-KA160	30,00	7,00	#####	45	F	PG
SUBARU 1800CC with TURBO without TURBO XT, AA4/5	86 -	EA82	4	IN	ISB-0613-TUFF	13201-AA001 13201-AA002	42,10	7,00	#####	45	ST	PG
				EX	ESB-5613-TUFF	13202-AA011 13202-AA012	35,60	7,00	#####	45	ST	PG
				EX	ESB-5614-TUFF	13202-AA021 13202-AA012	35,50	7,00	#####	45	FR	PG
				IN		13201-KA031						
				EX		13202-KA031						
JUSTY 1000CC DOMINGO 1200CC KA/KJ	84 -	EF10 EF12	3	IN	ISB-0615-TUFF	13201-KA111	36,00	7,00	#####	45	ST	PG
				EX	ESB-5615-TUFF	13202-KA161	30,00	7,00	#####	45	FR	PG
JUSTY 1200CC DOMINGO		EF12	3	IN	ISB-0617-TUFF	13201-KA	29,00	7,00	#####	45	ST	CG
				EX	ESB-5617-TUFF	13202-KA181	33,00	7,00	#####	45	ST	CG
LEGACY 2000CC 90 -	EJ20	16	4	IN	ISB-0618-TUFF	13201-AA072	31,00	6,00	#####	45	FR	CG
				EX	ESB-5618-TUFF	13202-AA171	28,00	6,00	#####	45	ST	CG
FORSTER 2500CC IMPREZA LEGACY	98 -	EJ25	4	IN	ISB-0619-TUFF	13201-AA310 13201-AA340	36,00	6,00	#####	45	ST	CG
				EX	ESB-5619-TUFF	13202-AA320 13202-AA350	32,00	6,00	#####	45	ST	CG
LEGACY 2000CC 90 -	EJ20	16	4	IN	ISB-0620-TUFF	13201-AA390	36,00	6,00	#####	45	ST	CG
				EX	ESB-5620-TUFF	13202-AA400	32,00	6,00	#####	45	ST	CG
LEGACY 2200CC IMPREZA without TURBO	90 -	EJ22	4	IN	ISB-0621-TUFF	13201-AA082 13201-AA080 13201-AA190	36,00	6,00	#####	45	ST	CG
				EX	ESB-5621-TUFF	13202-AA112	28,00	6,00	#####	45	ST	CG

			⑩				13202-AA110 13202-AA171						
LEGACY IMPREZA	2000CC	90 - 93	EJ20	4	IN	ISB-0622-TUFF	13201-AA480 13201-AA060	36,00	6,50	98,00	45	FR	CG
					EX	ESB-5622-TUFF	13202-AA490 13202-AA081	32,00	6,50	97,60	45	FR	CG
LEGACY IMPREZA with TURBO	2000CC	90 - 96	EJ20T	4	IN	ISB-0623-TUFF	13201-AA252 13201-AA250	36,00	6,00	93,70	45	ST	CG
					EX	ESB-5623-TUFF	13202-AA481 13202-AA272 13202-AA283	32,00	6,00	94,00	45	ST	CG
LEGACY	2500CC		EJ25	4	IN	ISB-0625-TUFF	13201-AA361	36,00	6,00	#####	45	F	CG
					EX	ESB-5652-TUFF	13202-AA371	31,50	6,00	#####	45	F	CG
WRX			EJ20T	4	IN	ISB-0626-TUFF	13201-AA371	36	6	104,5	45	F	CG
					EX	ESB-5626-TUFF	13202-AA411	32	6	104,6	45	F	CG

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SUZUKI

Vehicle Model	Year	Engine Type	Cyl. No.	IN EX	NPC No.	Reference No.	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Head Style	Stem End	
ALTO 550CC FRONTE 800CC JIMNY 550CC CARRY ST80/90 SB305/308 ST20/30 SJ10	78 -	F5A F8A LJ50 F10	3	IN	ISZ-0651-TUFF	12911-73000	31.60	7.00	110.00	45	ST	CG	
	78 -		12911-73001										
	76 -		12911-73002										
			12911-73003										
				4			12911-73010						
							12911-73011						
							12911-78100						
							12911-78101						
							12911-84000						
					EX	ESZ-5651-TUFF	12915-73000	27.60	7.00	109.60	45	F	CG
							12915-73001						
							12915-73002						
							12915-73003						
							12915-73005						
						12915-73010							
						12915-73011							
						12915-73812							
						12915-78110							
						12915-84000							
						12915-84010							
						12915-84101							
SWIFT 1000CC CULTAS 1000CC JIMNY 1300CC SF310/SA410 SJ410/413 SF413	83 -	F10A G10	4	IN	ISZ-0652-TUFF	12911-82000	36.00	7.00	115.60	45	ST	CG	
	83 -		12911-82010										
	85 -	G13A/B	4	EX	ESZ-5652-TUFF	12915-82000	30.00	7.00	114.60	45	ST	CG	
			12915-82050										
					12915-82062								
ESCUDO 1600CC VITARA SE416	86 -	G16A	4	IN	ISZ-0653-TUFF	12911-60A10	36.60	7.00	115.70	45	FR	CG	
			EX	ESZ-5653-TUFF	12915-60A50	32.50	7.00	114.50	45	F	CG		
					12915-60A00								
VITARA 1600CC SF416	90 -	G16A ⑩	4	IN	ISZ-0655-TUFF	12911-71C00	29.20	5.50	92.20	45	ST	CG	
			EX	ESZ-5655-TUFF	12915-71C50	25.00	5.50	80.00	45	F	CG		
SWIFT 1300CC AA33/AB33	86 -	G13A ⑩	4	IN	ISZ-0656-TUFF	12911-86511	29.00	5.50	105.20	45	ST	CG	
			EX	ESZ-5656-TUFF	12915-86510	24.10	5.50	104.60	45	ST	CG		
					12915-86561								
					12915-86500								
SWIFT 1300CC AA34/AB34	89 -	G13A ⑩	4	IN	ISZ-0654-TUFF	12911-60B20	35.00	5.50	84.20	45	ST	CG	
			EX	ESZ-5654-TUFF	12915-60B70	28.00	5.50	84.00	45	F	CG		
DAEWOO 800CC TICO		F8C	3	IN	IDW-0602-TUFF	12911-78B00	35.6	5.5	110.5	45	ST	CG	
			EX	EDW-5602-TUFF	12915-78B00	31.8	5.5	110.5	45	ST	CG		
SIDEKICK 1600CC		G16	4	IN	ISZ-0657-TUFF	12911-85FA0							
			EX	ESZ-5657-TUFF	12915-85F50								
VITARA BALENO ESTEEM		H25 J20 J18	V6	IN	ISZ-0658-TUFF	12911-99FA0	33	6	86.2	45	ST	CG	
			4	EX	ESZ-5658-TUFF	12915-86F50	28	6	86	45	ST	CG	
			4										
AERIO 1800CC	03 -	M18A ⑩	4	IN	ISZ-0661-TUFF	12911-73G00							
			EX	ESZ-5661-TUFF	12915-73G00								
WAGON R+ 1300CC SWIFT CRUZE	00 -	M13A ⑩	4	IN	ISZ-0662-TUFF	12911-54G00							
			EX	ESZ-5662-TUFF	12915-54G50								

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TOYOTA

Vehicle Model	Year	Engine Type	Cyl. No.	IN EX	NPC No.	Reference No.	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Head Style	Stem End
COROLLA TERCEL CARINA CORONA	1500CC 1300CC 1500CC 1600CC	78 - 80 - 80 - 83 -	4	IN EX	1A 2A 3A 4A	ITY-0546-TUFF 13711-15010 13711-15030 ETY-5546-TUFF 13715-15010	36,00 31,00	7,00 7,00	106,70 106,70	45 45	F F	MG MG
AE80/90/100 AL10/20 AT150/160/170												
COROLLA CARINA	1600CC 1500CC	88 - 87 -	4	IN EX	4AF 5A	ITY-0569-TUFF 13711-15050 13711-15071 ETY-5569-TUFF 13715-15030 13715-15050	30,00 24,60	6,00 6,00	91,50 92,00	45 45	ST F	CG CG
AE92/95/101/104 AT190												
COROLLA	1600CC 1800CC	87 -	6	IN EX	4AFE	ITY-0598-TUFF 13711-15090 ETY-5589-TUFF 13715-15070 13715-16060	31,00 24,50	6,00 6,00	87,50 88,00	45 45	FR FR	CG CG
COROLLA GT CELICA MA2 AA63 AE86/92/101 AW11	1600CC	83 -	4	IN EX	4AG	ITY-0559-TUFF 13711-16010 ETY-5559-TUFF 13715-16010	30,50 24,40	6,00 6,00	99,60 99,80	45 45	ST ST	CG CG
COROLLA AE102	1800CC	91 - 96 -		IN EX	4AFE 7AFE	ITY-0589-TUFF 13711-16060 ETY-5589-TUFF 13715-16060 13715-15070	31,00 24,50	6,00 6,00	88,00 88,00	45 45	FR F	CG CG
COROLLA	1600CC	91 -	4	IN EX	4AGE IN ⑧ EX ⑫	ITY-0603-TUFF 13711-16040 ETY-5603-TUFF 13715-16040	26,50 26,00	5,00 5,00	98,60 108,50	45 45	FR FR	CG CG
CAMRY RAV 4 WISH AVENSIS PICNIC PREVIA/TARAGO 2000/2400CC		00 -	4	IN EX	1AZ 2AZ	ITY-0621-TUFF 13711-28010 13711-28030 ETY-5621-TUFF 13715-28010 13715-28030	34,00 29,45	5,50 5,50	101,70 101,20	45 45	ST ST	CG CG
DYNA LANDCRUISER	3000CC	72 -	4	IN EX	B	ITY-0538-TUFF 13711-56010 ETY-5538-TUFF 13715-56010	45,00 37,50	9,00 9,00	128,00 127,80	45 45	F F	MG MG
EU20/30/BJ4#												
DYNA COASTER LANDCRUISER BU20/30/BJ4#	3000CC 3200CC	77 - 77 -	4	IN EX	B 2B	ITY-0556-TUFF 13711-56020 13711-53030/1 ETY-5556-TUFF 13715-56020 13715-56030/1	45,00 37,50	9,00 9,00	128,00 127,80	45 45	F F	CG CG
DYNA LANDCRUISER	3000CC	77 -	4	IN EX	B 2B	ITY-0586-TUFF 13711-56040 ETY-5586-TUFF 13715-56040	44,00 36,50	9,00 9,00	128,00 128,00	45 45	F F	CG CG
DYNA LANDCRUISER	3000CC	82 -	4	IN EX	B 2B	ITY-0582-TUFF 13711-56050 ETY-5582-TUFF 13715-56050	45,00 37,50	9,00 9,00	126,50 126,40	45 45	F F	CG CG
DYNA COASTER LANDCRUISER	3400CC	80 -	4	IN EX	3B	ITY-0544-TUFF 13711-58010 ETY-5544-TUFF 13715-58010	46,00 41,00	9,00 9,00	128,30 127,80	45 45	F F	CG CG
BJ4#/6#/BU/BB												
DYNA COASTER LANDCRUISER	3000CC 3400CC	85 - 85 -	4	IN EX	11B 13B	ITY-0544-TUFF 13711-58010 ETY-5557-TUFF 13715-58020/1	46,00 38,50	9,00 9,00	128,30 128,10	45 45	F F	CG CG
DYNA				IN	11B	ITY-0604-TUFF 13711-56060	44,00	9,00	126,60	45	F	CG

					EX	ETY-5604-TUFF	13715-56060	36,40	9,00	126,60	45	F	CG
DYNA LANDCRUISER BU6#/8#/9#		13B 14B	4		IN	ITY-0573-TUFF	13711-58020 13711-58050	46,00	9,00	127,00	45	F	CG
					EX	ETY-5573-TUFF	13715-58030	38,50	9,00	128,00	45	F	CG
					EX	ETY-5585-TUFF	13715-58040	38,50	9,00	126,50	45	F	CG
					EX	ETY-5599-TUFF	13715-58050	41,10	9,00	126,50	45	F	CG
DYNA	4100CC	88 -	15B	4	IN	ITY-0613-TUFF	13711-58030	37,00	7,00	126,50	45	F	CG
					EX	ETY-5613-TUFF	13715-58070	33,10	7,00	126,50	45	F	CG
COROLLA VAN	1800CC	81 -	1C	4	IN	ITY-0552-TUFF	13711-64010	38,50	8,00	106,50	45	F	CG
CORONA VAN	2000CC	83 -	2C		EX	ETY-5552-TUFF	13715-64010 13715-64020/1	32,50	8,00	106,50	45	F	CG
CE7#/8#/CT150/160													
COROLLA VAN	1800CC	89 -	1C	4	IN	ITY-0590-TUFF	13711-64011 13711-64020	38,50	8,00	105,00	45	F	CG
CARINA	2000CC	90 -	2C		EX	ETY-5590-TUFF	13715-64012 13715-64030 13715-64040	32,50	8,00	105,00	45	F	CG
CE95/CT170													
TRUCK	6000CC 6500CC	69-76	D 2D	6 6	IN	ITY-0535-TUFF	13711-76010-3	47,00	10,00	161,70	45	F	CG/MG
					EX	ETY-5535-TUFF	13715-76010-4	42,90	10,00	161,50	45	F	CG/MG
DA100													
TRUCK	6500CC	77-81	2D	6	IN	ITY-0536-TUFF	13711-77010	47,00	10,00	158,70	45	F	MG
					EX	ETY-5536-TUFF	13715-77010	43,00	10,00	158,60	45	F	MG
DA100													
TRUCK	6500CC	81-	2D	6	IN	ITY-0555-TUFF	13711-77011	46,80	10,00	158,50	45	F	CG
					EX	ETY-5555-TUFF	13715-77011	42,80	10,00	158,50	45	F	CG
DA110/120													
COROLLA	1000CC	84 -	1E	4	IN	ITY-0577-TUFF	13711-10020	39,30	6,00	92,30	45	ST	CG
STARLET	1300CC	84 -	2E		IN	ITY-0677-TUFF	13712-10010	21,10	6,00	98,70	45	F	CG
TERCEL	1500CC	86 -	3E		EX	ETY-5577-TUFF	13715-10030	31,10	6,00	92,40	45	F	CG
EP70/EL31/42 EE90			⑫										
SERA	1300CC	95 -	4EFE	4	IN	ITY-0584-TUFF	13711-11010/1	28,60	6,00	93,60	45	FR	CG
TERCEL	1500CC		5EFE	4	EX	ETY-5584-TUFF	13715-11030	24,50	6,00	94,00	45	FR	CG
EL4#/5#/EXY10			⑬										
LAND CRUISER	3800CC	54 -	F	6	IN	ITY-0539-TUFF	13711-60010	44,00	8,00	153,00	45	F	PG
					EX	ETY-5539-TUFF	13715-60010	37,50	8,00	121,50	45	F	PG
LAND CRUISER	3800CC	60 -	F	6	IN	ITY-0540-TUFF	13711-60011	44,00	8,00	152,60	45	T	MG/NG
					EX	ETY-5540-TUFF	13715-60011	37,60	8,00	121,20	45	F	MG/NG
FJ43													
LAND CRUISER	3800CC	60 -	F	6	IN	ITY-0541-TUFF	13711-60020	46,00	8,00	125,00	45	F	MG
					EX	ETY-5541-TUFF	13715-60030/1	37,50	8,00	125,00	45	ST	MG
FJ43													
LAND CRUISER	4200CC	75 -	2F 3F	6 6	IN	ITY-0542-TUFF	13711-60021 13711-61010 13711-61020	46,00	8,00	125,00	45	ST	3CG
					EX	ETY-5542-TUFF	13715-60032 13715-61010 13715-61030	37,50	8,00	125,30	45	ST	3CG
					EX	ETY-5579-TUFF	13715-61020 13715-61040	37,50	8,00	128,00	45	ST	MG
FJ40/43/45/55/60/70 /80													
LAND CRUISER	4500CC	92 -	1FZ	6	IN	ITY-0593-TUFF	13711-66020 13711-66030	38,00	7,00	98,70	45	ST	CG
					EX	ETY-5593-TUFF	13715-66020 13715-66030	32,00	7,00	98,20	45	FR	CG
FZJ80			(24)										
GRESSIDA	2000CC	80 -	1G	6	IN	ITY-0548-TUFF	13711-70010 13711-70020	36,00	7,00	109,50	45	F	MG
(GL16) CELICA/CROWN					EX	ETY-5548-TUFF	13715-70010	31,00	7,00	109,50	45	F	MG

GA60/GS126 GX60/70/80						13715-70020							
CRESSIDA	88 -	1G (24)	6	IN	ITY-0605-TUFF	13711-70050	28.00	6.00	93.40	45	FR	CG	
				EX	ETY-5605-TUFF	13715-70050	23.50	6.00	93.40	45	FR	CG	
DYNA 3600CC LAND CRUISER 4000CC COASTER HU30/40/59/HJ47/60 /75	69 - 82 -	H 2H	6	IN	ITY-0545-TUFF	13711-68010	42.00	9.00	120.90	45	F	CG	
				EX	ETY-5545-TUFF	13715-68010	35.00	9.00	120.80	45	F	CG	
LAND CRUISER 4200CC HZJ7#/8#/HDJ8#	90 -	1HZ 1HDT	6	IN	ITY-0578-TUFF	13711-17010	42.50	8.00	103.60	45	F	CG	
				EX	ETY-5578-TUFF	13715-17010	36.00	8.00	103.40	45	F	CG	
LANDCRUISER HDJ-80 4200CC	95 -	1HD- FTE	6	IN	ITY-0616-TUFF	13711-17020	33.00	7.00	127.20	45	F	CG	
				EX	ETY-5616-TUFF	13715-17020	30.50	7.00	126.80	45	F	CG	
DYNA 2400CC JU30 2500CC	65 - 68 -	J 2J	4	IN	ITY-0537-TUFF	13711-46010/3	40.50	9.00	120.50	45	F	MG	
				EX	ETY-5537-TUFF	13715-46010-3	33.50	9.00	120.60	45	F	MG	
TOYOACE 2500CC JU16/30	81 -	2J	4	IN	ITY-0549-TUFF	13711-48010/1	40.50	9.00	120.90	45	F	CG	
				EX	ETY-5549-TUFF	13715-48010	33.50	9.00	120.60	45	F	CG	
CHASER CROWN CRESTA/MARK II 2500/3000CC	99 -	1JZ 2JZ	6	IN	ITY-0620-TUFF	13711-46022							
				EX	ETY-5620-TUFF	13715-46020							
PUBLICA 1100CC COROLLA	66 -	K	4	IN	ITY-0501-TUFF	13711-22010	34.00	8.00	100.00	45	ST	MG/CG	
				EX	ETY-5501-TUFF	13715-22010	28.00	8.00	100.20	45	ST	MG/CG	
PUBLICA 1100CC COROLLA	66 -	K	4	IN	ITY-0502-TUFF	13711-22011	34.00	8.00	100.00	45	ST	MG	
				EX	ETY-5502-TUFF	13715-22011	28.00	8.00	100.00	45	F	MG	
COROLLA 1200CC STARLET KP42/KE20/25	69 -	2K 3K	4	IN	ITY-0503-TUFF	13711-24010 13711-24020	36.00	8.00	100.00	45	F	MG/CG	
				EX	ETY-5503-TUFF	13715-24010/1 13715-24020/1	29.00	8.00	100.00	45	ST	MG/CG	
COROLLA 1300CC STARLET 1300CC TAMARAW 1500CC KF1#/2#/4#/5# KE30/KE7#/KP6#	69 - 78 - 83 -	3K 4K 5K 7K	4	IN	ITY-0504-TUFF	13711-24011/2	36.00	8.00	100.00	45	F	MG	
				EX	ETY-5504-TUFF	13715-24012 13715-24030	29.00	8.00	100.00	45	F	MG	
				EX	ETY-5506-TUFF	13715-24013 13715-24031	29.00	8.00	100.00	45	F	MG	
REVO 1800CC	95 -	7K	4	IN	ITY-0606-TUFF	13711-13010	36.00	8.00	100.00	45	FR	CG	
LAND CRUISER 90 3000CC PRADO, COROLADO	96 -	1KZT	4	IN	ITY-0570-TUFF	13711-54020	42.40	8.00	103.50	45	F	CG	
				EX	ETY-5608-TUFF	13715-67020	37.00	8.00	103.40	45	F	CG	
LAND CRUISER 3000CC PRADO, COROLADO KZJ9S	99 -	1KZ-TE	4	IN	ITY-0610-TUFF	13711-54040	42.50	8.00	104.40	45	F	CG	
				EX	ETY-5610-TUFF	13715-67040	37.00	8.00	104.40	45	F	CG	
HILUX 2200CC HIACE 2400CC CRESSIDA/CROWN LN40/50/60 LH20/40/50/60/70 LX40/60/LS110/120	78 - 83 -	L 2L	4	IN	ITY-0547-TUFF	13711-54010	42.60	8.50	123.00	45	F	3CG	
				EX	ETY-5547-TUFF	13715-54010 13715-54020 13715-54030	35.00	8.50	122.80	45	F	3CG	
HILUX 2400CC HIACE 2800CC CRESSIDA/CROWN LN80/LH100 LX80/76/LS130/140	89 - 89 -	2L 3L	4	IN	ITY-0570-TUFF	13711-54020	42.40	8.00	103.50	45	F	CG	
				EX	ETY-5570-TUFF	13715-54040	36.10	8.00	103.40	45	F	CG	

	2400CC	90 -	2L	4	EX	ITY-5578-TUFF	13715-17010	36,00	8,00	103,40	45	F	CG
HILUX LN150		98 -	5L	4	IN	ITY-0609-TUFF	13711-54030	42,50	8,00	104,40	45	F	CG
					EX	ITY-5609-TUFF	13715-54040	36,00	8,00	104,20	45	F	CG
CROWN	2400CC	66 -	M	6	IN	ITY-0530-TUFF	13711-41010	40,00	8,00	113,00	45	F	MG
MS5#					EX	ITY-5530-TUFF	13715-41010	34,00	8,00	120,70	45	F	MG
CROWN	2600CC	66 -	M	6	IN	ITY-0526-TUFF	13711-41011/2	40,00	8,00	114,20	45	F	MG
					EX	ITY-5526-TUFF	13715-41011/2	34,00	8,00	123,20	45	F	MG
CROWN	2600CC	74 -	4M 5M	6	IN	ITY-0527-TUFF	13711-41020 13711-45010 13711-45020	38,00	8,00	116,20	45	ST	MG
MS85/95/111					EX	ITY-5527-TUFF	13715-45010 13715-45020	33,00	8,00	113,30	45	ST	MG
CROWN CELICA SUPRA MS112/123 MA55/61/67	2800CC	80 -	5M	6	IN	ITY-0528-TUFF	13711-43010 13711-43020	42,00	8,00	116,40	45	ST	MG
CROWN CELICA SUPRA MS125/135	2800CC	84 - 85 -	5M 6M	6 6	IN	ITY-0529-TUFF	13711-43030	44,00	8,00	107,50	45	F	MG
					EX	ITY-5529-TUFF	13715-43010	36,00	8,00	109,80	45	F	MG
SUPRA MA70	3000CC	86 -	7M (24)	6	IN	ITY-0571-TUFF	13711-42020	32,00	6,00	98,20	45	FR	CG
					EX	ITY-5571-TUFF	13715-42010	27,60	6,00	98,20	45	F	NG
AVALON LEXAS ES 300	3000CC		1MZ (24)	6	IN	ITY-0607-TUFF	13711-20020	34,00	5,50	95,50	45	FR	CG
					EX	ITY-5607-TUFF	13715-20020	27,30	5,50	95,40	45	FR	CG
STARLET	1500CC	87 -	1N	4	IN	ITY-0611-TUFF	13711-55010	34,00	6,00	91,30	45	F	CG
					EX	ITY-5611-TUFF	13715-55010	29,00	6,00	91,30	45	FR	CG
YARIZ ECHO		00 -	2N (16)	4	IN	ITY-0612-TUFF	13711-21010	30,5	5,00	89,20	45	FR	CG
					EX	ITY-5612-TUFF	13715-21010	25,5	5,00	88,00	45	FR	CG
CORONA	1500CC	64 -	2R	4	IN	ITY-0513-TUFF	13711-31010	40,00	8,00	116,00	45	F	NG/MG
					EX	ITY-5513-TUFF	13715-31010	32,00	8,00	116,00	45	F	NG/MG
CORONA	1500CC		2R	4	IN	ITY-0514-TUFF	13711-31011	40,00	8,00	116,00	45	F	MG
					EX	ITY-5514-TUFF	13715-31011	32,00	8,00	116,00	45	F	MG
CORONA	1500CC		2R	4	IN	ITY-0515-TUFF	13711-31012	39,00	8,00	116,00	45	F	MG/CG
					EX	ITY-5515-TUFF	13715-31012	33,00	8,00	116,00	45	F	MG/CG
CORONA HIACE HILUX RT40/50 RH10/RN10	1900CC	66 -	3R	4	IN	ITY-0531-TUFF	13711-40010 13711-40020 13711-40030	42,00	9,00	125,00	45	F	NG/CG
					EX	ITY-5531-TUFF	13715-40010 13715-40020/1	35,00	9,00	124,80	45	F	NG/CG
CROWN STOUT RS80/RK101	2000CC	70 -	5R	4	IN	ITY-0532-TUFF	13711-44010/1 13715-44010 13715-44020	43,00	8,50	109,50	45	ST	MG/CG
					EX	ITY-5532-TUFF		37,00	8,50	109,50	45	F	MG/CG
STOUT DYNA	2000CC	70 -	5R	4	IN	ITY-0533-TUFF	13711-44012	43,10	8,50	109,70	45	F	2CG
					EX	ITY-5533-TUFF	13715-44021	37,00	8,50	110,00	45	ST	2CG
STOUT DYNA CORONA RK101/110 RU20/30 RT100	2000CC	79 -	5R	4	IN	ITY-0534-TUFF	13711-44013	43,00	8,50	109,50	45	F	CG
					EX	ITY-5534-TUFF	13715-44022	37,00	8,50	110,30	45	ST	CG
CORONA	1700CC	70 -	6R	4	IN	ITY-0516-TUFF	13711-33010/1	43,00	8,00	114,40	45	ST	MG
	1600CC	68 -	7R		EX	ITY-5516-TUFF	13715-33010	34,00	8,00	114,20	45	F	MG
RT60/70/80	1800CC	68 -	8R				13715-33030						

RX10													
HILUX CORONA	1600CC	70 -	12R	4	IN	ITY-0517-TUFF	13711-31030 13711-31040	40,00	8,00	109,00	45	ST	MG/CG
RN20/25 RT80					EX	ETY-5517-TUFF	13715-31030 13715-31040 13715-31050	34,00	8,00	109,00	45	F	MG/CG
HILUX CORONA	1600CC	77 -	12R	4	IN	ITY-0518-TUFF	13711-31050	40,00	8,00	109,00	45	F	CG
RN30/40 RT127/130					EX	ETY-5518-TUFF	13715-31070	34,00	8,00	109,00	45	F	CG
HILUX CRESSIDA	1800CC 2000CC	71 - 71 -	16R 18R	4	IN	ITY-0519-TUFF	13711-34010-2 13711-34030/1	41,00	8,00	113,20	45	ST	MG
HIACE CORONA					EX	ETY-5519-TUFF	13715-34010-2 13715-34022 13715-34030-3 13715-34050 13715-36021	36,00	8,00	113,30	45	F	MG
RT110/123/132 RN30/40 RH22/3#/4# RX30													
		73 -	18R		IN	ITY-0520-TUFF	13711-36020-1 13711-36040	43,00	8,00	113,30	45	F	MG
					EX	ETY-5520-TUFF	13715-34013	36,00	8,00	113,80	45	FR	MG
CRESSIDA DYNA	2200CC 2000CC	75 - 78 -	20R 21R		IN	ITY-0523-TUFF	13711-37010 13711-38010 13711-38050	43,00	8,00	115,60	45	FR	MG
RX60/70 RU50					EX	ETY-5523-TUFF	13715-38010/1 13715-38020 13715-38050	36,00	8,00	113,90	45	FR	MG
					EX	ETY-5554-TUFF	13715-37020	36,00	8,00	113,90	45	ST	MG
CRESSIDA	2000CC	84 - 84 -	21R 22R		IN	ITY-0524-TUFF	13711-35010 13711-35030/1 13711-35040 13711-35050/1	45,00	8,00	114,10	45	F	MG
RX70/80 RU80/90 RN50/80/90/100					EX	ETY-5524-TUFF	13715-35020	37,00	8,00	112,70	45	F	MG
					EX	ETY-5525-TUFF	13715-35010 13715-35030/1 13715-35040	37,00	8,00	112,90	45	ST	MG
HIACE	2000CC 2500CC	89 - 89 -	1RZ 2RZ	4 4	IN	ITY-0580-TUFF	13711-75020		8,00	102,00	45	ST	CG
RZH100/103/125					EX	ETY-5580-TUFF	13715-75010 13715-75020	35,10	8,00	102,30	45	FR	CG
HIACE	2500CC	89 -	2RZE	4	IN	ITY-0596-TUFF	13711-75030	46,00	8,00	102,20	45	FR	CG
					EX	ETY-5596-TUFF	13715-75030	38,10	8,00	102,20	45	FR	CG
HIACE	2800CC	95 -	3RZE	4	IN	ITY-0600-TUFF	13711-75070	37,50	6,00	104,00	45	ST	CG
					EX	ETY-5592-TUFF	13715-75060 13715-76020/30	30,60	6,00	104,00	45	ST	CG
			Ⓜ										
4 RUNNER HILUX	2800CC	95 -	3RZFE	4	IN	ITY-0602-TUFF	13711-75060	37,50	6,00	103,50	45	FR	CG
					EX	ETY-5602-TUFF	13715-75050	30,50	6,00	103,70	45	FR	CG
			Ⓜ										
CORONA CELICA CARINA SA60/ST150	1800CC 2000CC	82 - 82 -	1S 2S	4 4	IN	ITY-0550-TUFF	13711-63010	40,00	8,00	109,70	45	F	MG
					EX	ETY-5550-TUFF	13715-63010/1	34,00	8,00	109,30	45	ST	MG
CORONA CELICA	2000CC	89 -	3S	4	IN	ITY-0572-TUFF	13711-74020 13711-74040	32,10	6,00	100,60	45	ST	CG
ST170/180/190					EX	ETY-5572-TUFF	13715-74020 13715-74050 13715-74060	27,00	6,00	100,60	45	F	CG
			Ⓜ										
CAMRY CORONA		91 -	3S 5S Ⓜ	4	IN	ITY-0591-TUFF	13711-74080 13711-74090 13711-03020	32,00	6,00	97,50	45	ST	CG
					EX	ETY-5591-TUFF	13715-74080 13715-74090	27,00	6,00	98,50	45	FR	CG

						13715-03020							
CAMRY	91 -	3S 5S ⑩	4	IN	ITY-0594-TUFF	13711-74101	32,00	6,00	97,50	45	FR	CG	
				EX	ETY-5594-TUFF	13715-74101	27,00	6,00	98,50	45	FR	CG	
MR2 CELICA CAMRY	96 -	3SG ⑩	4	IN	ITY-0583-TUFF	13711-88360/1	33,40	6,00	103,00	45	ST	CG	
				EX	ETY-5583-TUFF	13715-88360	29,00	6,00	102,00	45	ST	CG	
CELICA CARINA II 2000CC	94 -	3SGE 3SGTE ⑩	4	IN	ITY-0622-TUFF	13711-88362	33,50	6,00	100,6	45		CG	
				EX	ETY-5622-TUFF	13715-88361	29,00	6,00	99,60	45		CG	
PREVIA ESTIMA	2400CC 90 -	2TZ	4	IN	ITY-0592-TUFF	13711-76020	36,00	6,00	103,70	45	FR	CG	
				EX	ETY-5592-TUFF	13715-76020/30	30,60	6,00	104,00	45	ST	CG	
CARINA CELICA	1400CC 70 -	T	4	IN	ITY-0506-TUFF	13711-25010	41,00	8,00	109,20	45	F	MG/CG	
	1600CC 70 -		2T	4	EX	ETY-5506-TUFF	13715-25010	36,00	8,00	109,00	45	F	MG/CG
CARINA CELICA CORONA/COROLLA TA1#/3#/4# TT100/TE2#	1600CC 72 -	2T	4	IN	ITY-0507-TUFF	13711-25011	41,00	8,00	109,00	45	F	MG	
	1800CC 72 -		3T	4	EX	ETY-5507-TUFF	13715-25011	36,00	8,00	109,00	45	F	MG
LEXUS CROWN 4000CC	89 -	1UZ (32)	V8	IN	ITY-0619-TUFF	13711-50050							
				EX	ETY-5619-TUFF	13715-50050							
LAND CRUISER 4700CC UZJ100	98 -	2UZ (32)	V8	IN	ITY-0617-TUFF	13711-50060	34,50	5,50	95,10	45		CG	
				EX	ETY-5617-TUFF	13715-50060	29,00	5,50	95,10	45		CG	
CAMRY VZV21	2500CC 88 -	2VZ (24)	V6	IN	ITY-0597-TUFF	13711-62020	33,00	6,00	96,20	45	F	CG	
				EX	ETY-5597-TUFF	13715-62020	27,30	6,00	96,20	45	F	CG	
4 RUNNER CAMRY VZN100 VZN130	3000CC 91 -	3VZE (24)	V6	IN	ITY-0587-TUFF	13711-65010 13711-65020	42,00	8,00	104,30	45	ST	CG	
				EX	ETY-5587-TUFF	13715-65010 13715-65020	35,00	8,00	104,20	45	ST	CG	
LEXUS ES300 CAMRY PRADO	90 -	3VZFE (24)	V6	IN	ITY-0595-TUFF	13711-62040	34,10	6,00	95,60	45	ST	CG	
				EX	ETY-5595-TUFF	13715-62030	27,30	6,00	95,00	45	ST	CG	
HILUX 4 RUNNER CAMRY	3400CC 95 -	5VZFE (24)	V6	IN	ITY-0601-TUFF	13711-62030	34,00	6,00	95,20	45	FR	CG	
				EX	ETY-5601-TUFF	13715-62050	27,30	6,00	95,00	45	FR	CG	
HILUX HIACE YH50/60 YH50/60	1600CC 1800CC 2000CC 2400CC	82 -	1Y	4	IN	ITY-0553-TUFF	13711-71010	40,00	8,00	108,30	45	F	CG
			2Y	4			13711-71020						
			3Y	4	EX	ETY-5553-TUFF	13715-71010	36,00	8,00	108,60	45	F	CG
			4Y	4			13715-71020						
COROLLA CELICA ZZE122/ZZT230 1800CC	99 -	1ZZ-FE ⑩	4	IN	ITY-0614-TUFF	13711-22030	32,00	5,50	88,80	45		CG	
				EX	ETY-5614-TUFF	13715-22030	27,50	5,50	88,80	45		CG	
CELICA ZZT231 1800CC	99 -	2ZZ-FE ⑩	4	IN	ITY-0618-TUFF	13711-88600	34,00	5,50	111,30	45		CG	
				EX	ETY-5618-TUFF	13715-88600	29,50	5,50	111,70	45		CG	
COROLLA 1600CC	99 -	3ZZ-FE	4	IN	ITY-0615-TUFF	13711-22040	31,00	5,50	88,80	45		CG	
				EX	ETY-5615-TUFF	13715-22040	26,00	5,50	88,80	45		CG	

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KOREAN SPECIFICATION

ASIA

SS	IN		K638-12-111
	EX		K638-12-121
TOWNER	IN	IDH-0004-TUFF	AA100-12-111
	EX	EDH-5004-TUFF	AA100-12-121

KIA

BESTA 2700CC 1996 -	IN	IMZ-0300-TUFF	VN01-12-111
	EX	EMZ-5300-TUFF	VN01-12-121
SF E2200 S2 1977/1980	IN	IMZ-0259-TUFF	0636-12-111
	EX	EMZ-5266-TUFF	0527-2-121
PRIDE	IN	IMZ-0290-TUFF	KK153-12-121
	EX	EMZ-5291-TUFF	KK150-12-121
R2	IN	IMZ-0278-TUFF	K710-12-111
	EX	EMZ-5278-TUFF	K710-12-121
J2 2700CC 1998	IN		K65D-12-111
	EX		K65B-12-121
SL	IN	IMZ-0280-TUFF	K410-12-111
	EX	EMZ-5280-TUFF	K410-12-111
VM39B 410CC COMBI TURBO 1998 -	IN		2036-0026F
	EX		2036-2005F
B5 DOHC	IN	IMZ-0284-TUFF	B6S7-12-111
	EX	EMZ-5279-TUFF	K938-12-121
B6 SOHC	IN	IMZ-0283-TUFF	K930-12-111
	EX	EMZ-5283-TUFF	K930-12-121
1500CC DOHC MPFI	IN		K30E-12-111
	EX		K30E-12-121
PREGIO 2.7	IN	IMZ-0310-TUFF	OK65A-12-111A
	EX	EMZ-5311-TUFF	OK65C-12-111
PREGIO 3.0	IN	IMZ-0311-TUFF	OK65C-12-111
	EX	EMZ-5311-TUFF	OK65A-12-121A
RIO 1.3	IN	IMZ-0316-TUFF	OK30C-12-111
	EX	EMZ-5316-TUFF	OK30C-12-121
RIO 1.5	IN	IMZ-0317-TUFF	OK30E-12-111
	EX	EMZ-5317-TUFF	OK30E-12-121

SANGYONG

TUNED BY M-BENZ	IN	IMD-0201-TUFF	601-053-1201
	EX	EMD-5201-TUFF	601-050-2527

DAEWOO

TICO 800CC	IN	IDW-0602-TUFF	12911-78B00
	EX	EDW-5602-TUFF	12915-78B00
LANOS SENCILLO	IN	IDW-0603-TUFF	96182934
	EX	EDW-5603-TUFF	96182933
CIELO 1500CC LANOS (DOHC) NUBIRA	IN	IDW-0604-TUFF	96182806 96103129
	EX	EDW-5604-TUFF	96182805 96103130

RACER	1500CC	IN	IDW-0702-TUFF	90215492
		EX	EDW-5702-TUFF	90215491
ESPRESSO	2000CC	IN		92032286
		EX		92032287

HYUNDAI

		IN	IMB-0305-TUFF	22211-21010
		EX	EMB-5305-TUFF	22212-21010
SONATA G4DR	DOHC	IN	IMB-0346-TUFF	22211-33000
		EX	EMB-5346-TUFF	22212-33010
SONATA		IN	IMB-0383-TUFF	22211-37200
		EX	EMB-5383-TUFF	22212-37200
ACCENT G4EK	1300CC	IN	IMB-0371-TUFF	22211-22003
		EX	EMB-5371-TUFF	22212-22011
H100 STAREK	D4BB	IN	IMB-0372-TUFF	22211-42200
		EX	EMB-5372	22212-42200
G4CS		IN		22211-32604
		EX		22212-32604
BA/BX		IN	IMB-0338-TUFF	22211-42000
		EX	EMB-5338-TUFF	22212-42000
D4AF		IN	IMB-0313-TUFF	22211-41000
		EX	EMB-5313-TUFF	22212-41000
	1500CC	IN		22211-24504
		EX		22212-21000
		IN	IMB-0390-TUFF	22211-02500
		EX	EMB-5390-TUFF	22212-02500
ELANTRA	1996 - 1.6 DOHC	IN	IMB-0396-TUFF	22211-23100
		EX	EMB-5396-TUFF	22212-23100
ELANTRA	1.8	IN	IMB-0397-TUFF	22211-23000
		EX	EMB-5396-TUFF	22212-23100
TERRACAN H1 DIESEL	2500CC	IN	IMB-0369-TUFF	22211-42520
		EX	EMB-5369-TUFF	22212-42520