

**QUICK REFERENCE CHART M45**  
**ENGINE TUNE-UP DATA (VK45DE)**

PFP:00000

ELS0003W

Engine model	VK45DE	
Firing order	1-8-7-3-6-5-4-2	
Idle speed A/T (In "P" or "N" position)	rpm	650±50
Ignition timing (BTDC at idle speed)	12°±5°	
CO% at idle	0.7 - 9.9 % and engine runs smoothly	
Tensions of drive belts	Auto adjustment by auto tensioner	
Radiator cap relief pressure	78-98 (0.8-1.0 , 11-14 )	
Standard	kPa (kg/cm <sup>2</sup> , psi)	
Cooling system leakage testing pressure	157(1.6, 23)	
Standard	kPa (kg/cm <sup>2</sup> , psi)	
Compression pressure	kPa (kg/cm <sup>2</sup> , psi)/rpm	1,320 (13.5, 191) /300
Standard		
Minimum		1,130 (11.5, 164)/300
Spark plug	Standard type	PLFR5A - 11
	Hot type	PLFR4A - 11
	Cold type	PLFR6A - 11

**FRONT WHEEL ALIGNMENT (Unladen\* )**

ELS0003X

Camber	Degree minute (Decimal degree)	Minimum	- 1° 25' (- 1.42°)	
		Nominal	- 0° 40' (- 0.67°)	
		Maximum	0° 05' (0.08°)	
		Left and right difference	45' (0.75°) or less	
Caster	Degree minute (Decimal degree)	Minimum	5° 50' (5.83°)	
		Nominal	6° 35' (6.58°)	
		Maximum	7° 20' (7.33°)	
		Left and right difference	45' (0.75°) or less	
Kingpin inclination	Degree minute (Decimal degree)	Minimum	12° 40' (12.67°)	
		Nominal	13° 25' (13.42°)	
		Maximum	14° 10' (14.17°)	
Total toe-in	Distance (A - B)	mm (in)	Minimum	1 (0.04)
			Nominal	2 (0.08)
			Maximum	3 (0.12)
	Angle (left plus right)	Degree minute (Decimal degree)	Minimum	2' (0.03°)
			Nominal	5' (0.08°)
			Maximum	8' (0.13°)
Wheel turning angle (Full turn)	Inside	Degree minute (Decimal degree)	Minimum	30° 55' (30.92°)
			Nominal	33° 55' (33.92°)
			Maximum	34° 55' (34.92°)
	Outside	Degree minute (Decimal degree)	Nominal	28° 45' (28.75°)

\* : Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.