

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemTN Acty1982 to 1991

Type		EH
Capacity (cm ³) / number of cylinders		545 / 2
Compression ratio / pressure	bar	8.8 / ≥5.9
Oil pressure	bar	[3.8 to 4.4]
Oil temperature	°C	—
Valve clearance - inlet	mm	0.12 to 0.17
Valve clearance - exhaust	mm	0.17 to 0.23
Firing order		1-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.76 to 1.04

Fuel systemTN Acty1982 to 1991

Idle speed - manual [auto]	rpm	950±100
Fast idle speed - manual [auto]	rpm	2200 to 3200
CO @ idle speed [3000 rpm] - see page VI	%	≤0.1
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Keihin
Type / ref		VV
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	0.07 to 0.14
Octane rating	RON	91[R]

Ignition systemTN Acty1982 to 1991

Type		Electronic
Ignition coil		—
Primary resistance	ohms	1.78 to 2.08
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	17±2 BTDC @ idle
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1000 to 1400
	° Crankshaft @ rpm	18 to 22 @ 2400 to 2600
	° Crankshaft @ rpm	28 to 32 @ 5500
Vacuum range check	mbar	73 to 307
Maximum vacuum advance	° Crankshaft	14 to 16
Spark plugs		NGK/Champion
Type		BPR6EY / N9YC
Electrode gap	mm	0.80 to 0.90

Electrical systemTN Acty1982 to 1991

Battery	V / CC / RC	12 / 35Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.5 / _ / 2500
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	380 / 5.5

Running gearTN Acty1982 to 1991

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	—
Estate / Van	Size	5.00x10
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.8 / 2.3

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0 to 8.0
Camber		+1°30'±1°
Castor		+3°±1°
King pin inclination		+12°30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0
Camber		0

Torque wrench settingsTN Acty1982 to 1991

Cylinder head - stage 1	Nm	M10: 54 to 64
- stage 2	Nm	M6: 8 to 12
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	22 to 26
Main bearings	Nm	M10: 37 to 42 ¹
Clutch cover	Nm	8 to 12
Flywheel [driveplate]	Nm	71
Front hubs	Nm	WSM
Rear hubs	Nm	200
Wheel nuts / bolts	Nm	65
Spark plugs	Nm	23

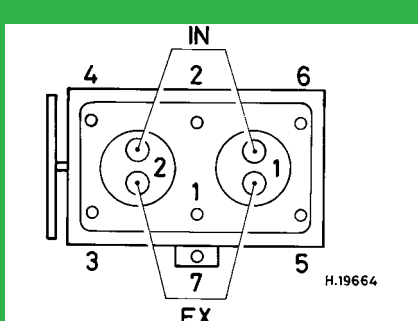
CapacitiesTN Acty1982 to 1991

Engine oil & filter	litres	2.8
Gearbox - 4-speed [5-speed]	litres	2.3 [2.4]
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.0
Fuel tank	litres	29

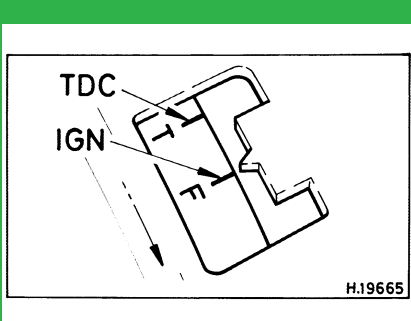
Notes and Illustrations

¹M6: 8 to 12

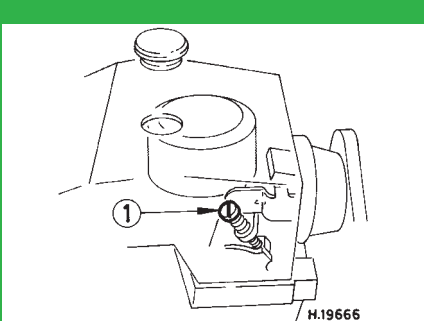
1: Idle speed 2: CO / Mixture



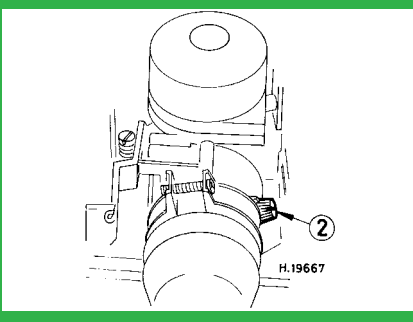
545 cm³



545 cm³



Keihin VV



Keihin VV