

YUGO/ZASTAVA

45A & Tempo, 903 cm³

1986 to 1993

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system

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Type		100GL 064
Capacity (cm ³) / number of cylinders		903 / 4
Compression ratio / pressure	bar	9.0 / _
Oil pressure	bar	[2.8 to 4.2]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.15
- exhaust	mm	0.20
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	87±2
Radiator cap pressure	bar	0.8

Fuel system

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Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
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		IPM
Type / ref		32 MGV 33 / 34 (Weber type)
Main jet / needle		112
Injection pressure	bar	_
Pump pressure	bar	0.20 to 0.30
Octane rating	RON	97[RA] ¹

Ignition system

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Type		Contact breaker - CIS
Ignition coil		Iskra. Bosch
Primary resistance	ohms	2.6 to 3.5 (typical)
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Rudi Cajavec
Points gap (air gap)	mm	0.37 to 0.43
Dwell angle	° (%)	55±3
Condenser capacity	µF	0.22 to 0.27
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 850±50 ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 1000 to 1400
	° Crankshaft @ rpm	22 to 26 @ 3500
	° Crankshaft @ rpm	30 to 34 @ 4750
Vacuum range check	mbar	133 to 333
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs		Bosch/Champion
Type		W7D / RN9YC
Electrode gap	mm	0.50 to 0.60

Electrical system

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Battery	V / CC / RC	12 / 370 / 45Ah
Alternator voltage / full load current / engine rpm		14.0 / _ / 2500
Starter motor current / voltage - cranking	A / V	198 / 9.1
- locked	A / V	315 / 7±0.3

Running gear

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

Tyres		
Saloon	Size	145x13
Estate / Van	Size	145x13
Pressure - front / rear - Saloon	bar	1.9 / 2.0
- Estate / Van	bar	1.9 / 2.0

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0±1.0 L
Camber		+1°25'±30'
Castor		+2°15'±30'
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3.0 to 7.0
Camber		-3°±30'

Torque wrench settings

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Cylinder head - stage 1	Nm	60
- stage 2	Nm	_
- stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	41
Main bearings	Nm	69
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	49
Front hubs	Nm	137
Rear hubs	Nm	137
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	32

Capacities

45A & Tempo, 903 cm³

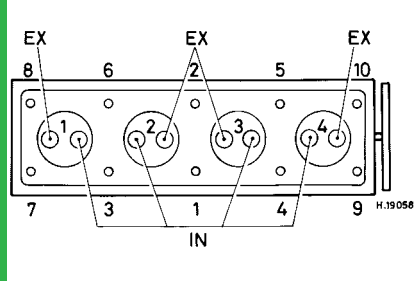
1986 to 1993

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	3.2
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	5.0
Fuel tank	litres	30

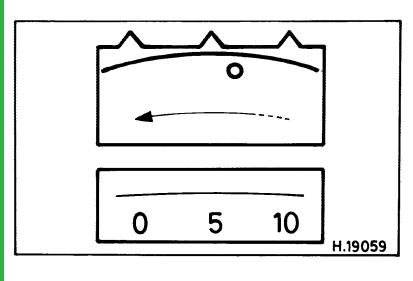
Notes and Illustrations

¹[E 95 RON]: 5° BTDC

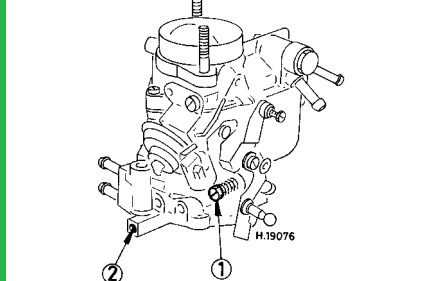
1: Idle speed 2: CO / Mixture



903 cm³



903 cm³



IPM 32 MGV 33/34