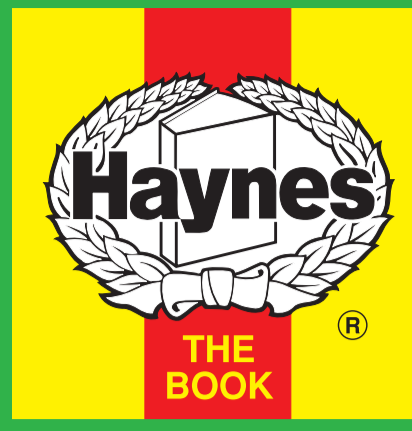


Engine & Cooling Fuel Ignition Electrical Running gear Torque settings Capacities Notes & Illustrations



Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system 825i, Sterling 1986 to 1988

| | | |
|---|-----|-----------------|
| Type | | V6 OHC-24 valve |
| Capacity (cm ³) / number of cylinders | | 2494 / 6 |
| Compression ratio / pressure | bar | 9.6 / _ |
| Oil pressure | bar | _ |
| Oil temperature | °C | _ |
| Valve clearance - inlet | mm | 0: Hyd. |
| - exhaust | mm | 0: Hyd. |
| Firing order | | 1-4-2-5-3-6 |
| No 1 cylinder position | | _ |
| Thermostat opening temperature | °C | 78 |
| Radiator cap pressure | bar | 1.04 |

Fuel system 825i, Sterling 1986 to 1988

| | | |
|---|-----|--------------------------|
| Idle speed - manual [auto] | rpm | 770±50 controlled by ECU |
| Fast idle speed - manual [auto] | rpm | Controlled by ECU |
| CO @ idle speed [3000 rpm] - see page VI | % | 0.5±0.25 |
| HC @ idle speed [3000 rpm] - see page VI | ppm | ≤1200 |
| CO ₂ @ idle speed [3000 rpm] - see page VI | % | _ |
| O ₂ @ idle speed [3000 rpm] - see page VI | % | _ |
| Carburettor / fuel injection | | Honda |
| Type / ref | | PGMFi |
| Main jet / needle | | _ |
| Injection pressure | bar | 2.0 |
| Pump pressure | bar | 4.1 |
| Octane rating | RON | 97[RA] ¹ |

Ignition system 825i, Sterling 1986 to 1988

| | | |
|---------------------------------|--------------------|---|
| Type | | Computerized |
| Ignition coil | | Toyo Denso TC-04A |
| Primary resistance | ohms | _ |
| Ballast resistor | ohms | _ |
| Voltage - Tmnl 15(+) to earth | V | _ |
| Distributor | | Toyo Denso |
| Points gap (air gap) | mm | _ |
| Dwell angle | ° (%) | _ |
| Condenser capacity | µF | _ |
| Rotation | | Anticlockwise |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 13±2 BTDC @ 770 [AT: 11±2] ¹ |
| V = Vacuum NV = No Vacuum | | NV |
| Total ignition advance | ° Crankshaft @ rpm | 22 to 28 BTDC @ 1500 (V) |
| | ° Crankshaft @ rpm | _ |
| | ° Crankshaft @ rpm | _ |
| Centrifugal check. | ° Crankshaft @ rpm | Computer control |
| | ° Crankshaft @ rpm | _ |
| | ° Crankshaft @ rpm | _ |
| Vacuum range check | mbar | Computer control |
| Maximum vacuum advance | ° Crankshaft | _ |
| Spark plugs | | Unipart/Champion |
| Type | | XHM279 or 281 / RC9YC |
| Electrode gap | mm | 1.0 |

Electrical system 825i, Sterling 1986 to 1988

| | | |
|---|-------------|-----------------|
| Battery | V / CC / RC | 12 / 520 / 120 |
| Alternator voltage / full load current / engine rpm | | 14.0 / _ / 2500 |
| Starter motor current / voltage - cranking | A / V | _ |
| - locked | A / V | _ |

Running gear 825i, Sterling 1986 to 1988

| | | |
|--|----|------------------------|
| Brakes - | | |
| Front (min. friction material thickness) | mm | 8.2 with backing plate |
| Rear (min. friction material thickness) | mm | 7.2 with backing plate |

| | | |
|----------------------------------|------|-----------|
| Tyres | | |
| Saloon | Size | 195/65x15 |
| Estate / Van | Size | _ |
| Pressure - front / rear - Saloon | bar | 1.9 / 1.9 |
| - Estate / Van | bar | _ |

| | | |
|---|--------|------------|
| Front suspension / wheel alignment | | |
| Toe-in (+) / Toe-out (-) | mm [°] | [0±8'] |
| Camber | | +11'±30' |
| Castor | | +1°54'±15' |
| King pin inclination | | +8° |

| | | |
|--|--------|-----------|
| Rear suspension / wheel alignment | | |
| Toe-in (+) / Toe-out (-) | mm [°] | [+10'±4'] |
| Camber | | 0±30' |

Torque wrench settings 825i, Sterling 1986 to 1988

| | | |
|-------------------------|----|-------------------------------|
| Cylinder head - stage 1 | Nm | 40 |
| - stage 2 | Nm | 78 |
| - stage 3 | Nm | _ |
| - stage 4 | Nm | _ |
| Big-end bearings | Nm | 50 |
| Main bearings | Nm | 68 bolts 9 to 16 ² |
| Clutch cover | Nm | 26 |
| Flywheel [driveplate] | Nm | 105 [75] |
| Front hubs | Nm | 290 |
| Rear hubs | Nm | 245 |
| Wheel nuts / bolts | Nm | 72 |
| Spark plugs | Nm | 18 |

Capacities 825i, Sterling 1986 to 1988

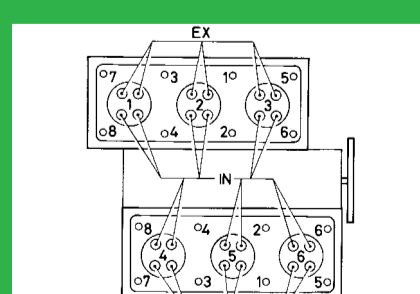
| | | |
|---------------------------------|--------|------|
| Engine oil & filter | litres | 4.5 |
| Gearbox - 4-speed [5-speed] | litres | 2.3 |
| Automatic transmission - refill | litres | 3.2 |
| Final drive | litres | WT |
| Cooling system | litres | 10.0 |
| Fuel tank | litres | 68 |

Notes and Illustrations

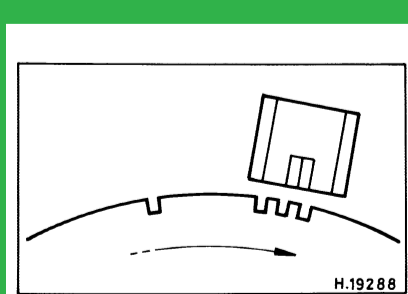
¹[E 95 RON]: 9±2 BTDC @ 770 [AT: 7±2]

²Main bolts only. Others: WSM

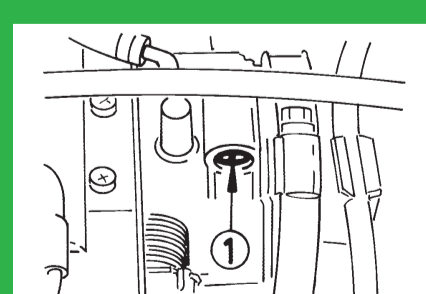
1: Idle speed 2: CO / Mixture



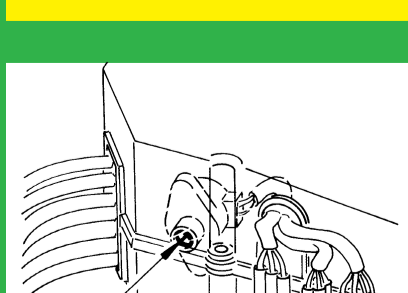
2494 cm³



2494 cm³



PGM-Fi, 2494 cm³



PGM-Fi, 2494 cm³