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| Engine & Cooling | Fuel | Ignition | Electrical | Running gear | Torque settings | Capacities | Notes & Illustrations |
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Automotive Technical DATA BOOK

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Engine and cooling system 200 SX & CAT (S13) 1989 to 1994

| | | |
|---|------------------------|--------------|
| Type | CA18DET DOHC 16V Turbo | |
| Capacity (cm ³) / number of cylinders | 1809 / 4 | |
| Compression ratio / pressure | bar | 8.5 / ≥9.8 |
| Oil pressure | bar | [3.5 to 4.1] |
| Oil temperature | °C | 80 |
| Valve clearance - inlet | mm | 0: Hyd. |
| Valve clearance - exhaust | mm | 0: Hyd. |
| Firing order | 1-3-4-2 | |
| No 1 cylinder position | TBE | |
| Thermostat opening temperature | °C | 88 |
| Radiator cap pressure | bar | 0.78 to 0.98 |

Fuel system 200 SX & CAT (S13) 1989 to 1994

| | | |
|---|---------|----------------|
| Idle speed - manual [auto] | rpm | 850±50 |
| Fast idle speed - manual [auto] | rpm | — |
| CO @ idle speed [3000 rpm] - see page VI | % | ≤2.0. CAT: N/A |
| HC @ idle speed [3000 rpm] - see page VI | ppm | ≤200 |
| CO ₂ @ idle speed [3000 rpm] - see page VI | % | — |
| O ₂ @ idle speed [3000 rpm] - see page VI | % | — |
| Carburettor / fuel injection | _Nissan | |
| Type / ref | ECCS | |
| Main jet / needle | — | |
| Injection pressure | bar | 2.0 @ idle |
| Pump pressure | bar | 2.5 @ idle |
| Octane rating | RON | 95[U] |

Ignition system 200 SX & CAT (S13) 1989 to 1994

| | | |
|---------------------------------|----------------------------------|------------------|
| Type | Direct electronic | |
| Ignition coil | — | |
| Primary resistance | ohms | 0.6 to 0.8 |
| Ballast resistor | ohms | — |
| Voltage - Tmnl 15(+) to earth | V | — |
| Distributor | — | |
| Points gap (air gap) | mm | — |
| Dwell angle | ° (%) | — |
| Condenser capacity | µF | — |
| Rotation | — | |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 15±2 BTDC @ idle |
| V = Vacuum NV = No Vacuum | NV | |
| Total ignition advance | ° Crankshaft @ rpm | — |
| | ° 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 | NGK/Champion | |
| Type | BCPR6ES-11 / RC7YC4 ² | |
| Electrode gap | mm | 1.00 to 1.10 |

Electrical system 200 SX & CAT (S13) 1989 to 1994

| | | |
|---|--------------------------|---------------------------|
| Battery | V / CC / RC | 12 / 60Ah |
| Alternator voltage / full load current / engine rpm | 14.1 to 14.7 / 80 / 2500 | |
| Starter motor current / voltage - cranking | A / V | 50 to 90 / 11.0 (no load) |
| - locked | A / V | — |

Running gear 200 SX & CAT (S13) 1989 to 1994

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

| | | |
|----------------------------------|------|-----------|
| Tyres | | |
| Saloon | Size | 195/60x15 |
| Estate / Van | Size | — |
| Pressure - front / rear - Saloon | bar | 2.0 / 2.3 |
| - Estate / Van | bar | — |

Front suspension / wheel alignment

| | | |
|--------------------------|-----------------------|-----------|
| Toe-in (+) / Toe-out (-) | mm [°] | 0 to +2.0 |
| Camber | -1°25' to +5' N/A | |
| Castor | +5°55' to 7°25' N/A | |
| King pin inclination | +12°25' to 13°55' N/A | |

Rear suspension / wheel alignment

| | | |
|--------------------------|----------------|-----------|
| Toe-in (+) / Toe-out (-) | mm [°] | 0 to +5.0 |
| Camber | -1°40' to -40' | |

Torque wrench settings 200 SX & CAT (S13) 1989 to 1994

| | | |
|-------------------------|----|------------------------|
| Cylinder head - stage 1 | Nm | 29 |
| - stage 2 | Nm | 103, then loosen bolts |
| Cylinder head - stage 3 | Nm | 29 |
| - stage 4 | Nm | + 85 to 90° |
| Big-end bearings | Nm | 41 to 44 |
| Main bearings | Nm | 44 to 54 |
| Clutch cover | Nm | 22 to 29 |
| Flywheel [driveplate] | Nm | 98 to 108 |
| Front hubs | Nm | 147 to 216 |
| Rear hubs | Nm | 206 to 275 |
| Wheel nuts / bolts | Nm | 98 to 118 |
| Spark plugs | Nm | 20 to 29 |

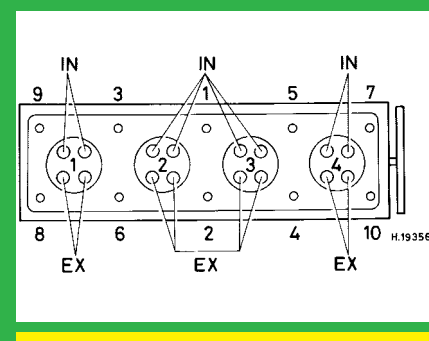
Capacities 200 SX & CAT (S13) 1989 to 1994

| | | |
|---------------------------------|--------|-----|
| Engine oil & filter | litres | 3.5 |
| Gearbox - 4-speed [5-speed] | litres | 2.4 |
| Automatic transmission - refill | litres | 7.9 |
| Final drive | litres | 1.8 |
| Cooling system | litres | 7.0 |
| Fuel tank | litres | 60 |

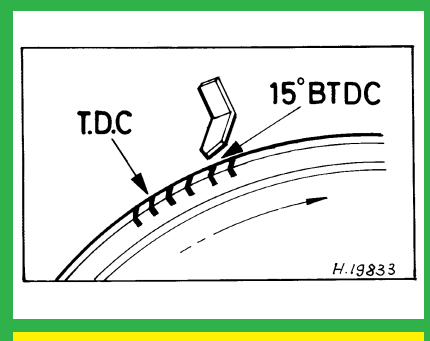
Notes and Illustrations

²CAT: PFR6A-11

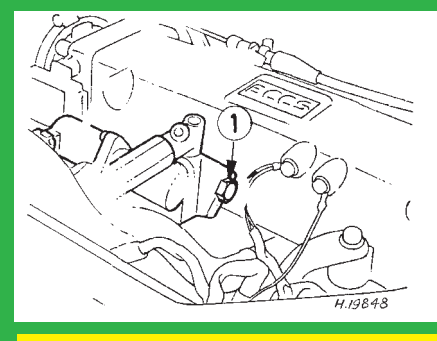
1: Idle speed 2: CO / Mixture



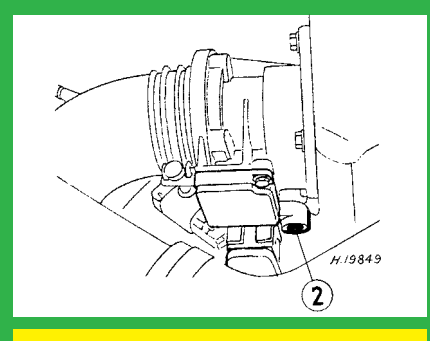
1809 cm³, DOHC



1809 cm³, DOHC



ECCS, 200 SX



ECCS, 200 SX