

**Open**



You're Reading a Free Preview Pages 126 to 130 are not shown in this preview. For quiet operation, the teeth on the timing belt had a round profile. Furthermore, a piezo-electric type knock sensor installed on the cylinder block which converted knocking vibrations into electric signals. You're Reading a Free Preview Pages 116 to 119 are not shown in this preview. The air bypass valve was actuated by the vacuum created by the closure of the throttle valve and allowed the suction air to bypass the turbocharger and flow upstream, thereby lowering the pressure in the air passage. Intercooler Since the turbocharging process increased the temperature of the intake air, it was then passed through an air-cooled intercooler that received air via the bonnet duct. Furthermore, the piston pin was located in an offset position. A single timing belt was used to drive the four camshafts, while the back of the belt also drove the water pump. The timing belt cover was made from a synthetic resin moulding and used rubber at the mating surface of the cylinder block to absorb noise and vibrations. Each camshaft was supported by three journals with three camshaft caps, while each camshaft flange was supported by a groove in the cylinder head to receive thrust force. You're Reading a Free Preview Pages 87 to 88 are not shown in this preview. The piston head was recessed for both the intake and exhaust valves, while the pistons had three rings: two pressure rings and an oil control ring. The timing belt consisted of a strong and inflexible core wire, wear-resistant canvas and heat-resistant rubber material. Cylinder head and camshafts The cross-flow cylinder head for the EJ20G was made from die-cast aluminium and had double overhead camshafts (DOHC) per cylinder bank. The cylinder block had an open-deck design to enhance cooling efficiency and dry-type, cast iron cylinder liners. The EJ20G engine had multi-point fuel injection via gallery-type (or side-feed type) fuel injectors. Of these, the top piston ring had an inner bevel design. The second piston ring had an interrupt design to reduce oil consumption; and, the oil control ring had a slit design. After cooling the bearing housing, the coolant flowed into the coolant filler tank via a pipe. The EJ20G engine had an air bypass valve to prevent the suction noise that can otherwise occur when the throttle valve is suddenly closed and causes a sudden rise in air pressure between the turbocharger and the throttle body. You're Reading a Free Preview Pages 254 to 273 are not shown in this preview. For the GC/GM Impreza WRX, a hydraulic belt-tensioner maintained timing belt tension. The intercooler was mounted on top of the engine and cooled the intake air to increase its density. You're Reading a Free Preview Pages 9 to 55 are not shown in this preview. Injection and ignition The EJ20G engine had pentroof combustion chambers which featured a wide 'squish' area. Furthermore, engine coolant from the coolant drain hose (under the engine cylinder head) flowed to a coolant passage in the turbocharger bearing housing. For the GC/GM Impreza WRX, the EJ20G engine used a hot-film type mass air flow sensor to calculate intake air volume. You're Reading a Free Preview Pages 61 to 65 are not shown in this preview. You're Reading a Free Preview Pages 173 to 183 are not shown in this preview. You're Reading a Free Preview Pages 100 to 106 are not shown in this preview. You're Reading a Free Preview Pages 84 to 90 are not shown in this preview. You're Reading a Free Preview Pages 147 to 166 are not shown in this preview. The injection and firing order for the EJ20G engine was 1-3-2-4. The EJ20G engine had centrally mounted spark plugs and a compression ratio of 8.0:1. Coronavirus.Politologue.com © un site de Politologue.com. Toutes les données affichées sur le site vous sont proposées à des fins statistiques et à titre d'information – Elles proviennent toutes de données publiques disponibles en OpenData -- 0,28 sec -- EJ20G cylinder block The EJ20G engine had a die-cast aluminum alloy cylinder block with 92.2 mm bores and a 75.0 mm stroke for a capacity of 1994 cc. You're Reading a Free Preview Pages 92 to 98 are not shown in this preview. You're Reading a Free Preview Pages 105 to 112 are not shown in this preview. For the GC/GM Impreza WRX, the EJ20G engine had cast pistons and connecting rods. You're Reading a Free Preview Pages 56 to 74 are not shown in this preview. You're Reading a Free Preview Pages 71 to 74 are not shown in this preview. Crankshaft and pistons For the EJ20G engine, the crankshaft was supported by five bearings that were made from aluminium alloy, while the no. Furthermore, the corners of the crankshaft journals and webs, and the crank pins and webs, had a fillet-roll finish to increase stiffness. You're Reading a Free Preview Pages 205 to 208 are not shown in this preview. You're Reading a Free Preview Pages 189 to 199 are not shown in this preview. You're Reading a Free Preview Pages 217 to 246 are not shown in this preview. During their manufacture, the camshaft 'nose' was subjected to a chill treatment to increase wear resistance and anti-scuffing properties. To reduce mass and sliding, the piston skirt had a 'slipper' design. Once boost pressure reached its maximum, the wastegate valve would open so that part of the exhaust gas would bypass the turbine and flow into the exhaust pipe. The turbocharger was lubricated by the engine oil and used full-floating type bearings to form lubrication films. You're Reading a Free Preview Pages 140 to 141 are not shown in this preview. TD05 Turbocharger For the GC/GM Impreza WRX, the EJ20G engine had a water-cooled, Mitsubishi TD05 turbocharger; the rotational speed of the turbine ranged from approximately 20,000 rpm to 150,000 rpm and peak boost is understood to be around 11 to 12 psi. To prevent excessive boost pressure, which could cause knocking and heavier thermal loads on the pistons, the EJ20G engine had a wastegate valve.

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