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125 ENGINE - MFI SYSTEM STD Voltage Terminals Trouble Condition Terminals Trouble Cranking No voltage (1) There is no voltage between ECM terminals BATT - E 1 (1) There is no voltage between ECM terminals BATT and E1. CONNECTORS, HOSES AND CABLES (a) Disconnect the following strap, wires and connectors: Ground strap from LH fender apron Generator connector and wire Igniter connector Oil pressure sender gauge connector... Page 149 EGI-15 ENGINE - ENGINE MECHANICAL CYLINDER HEAD COMPONENTS... DISCONNECT EXHAUST PIPE FROM EXHAUST MANIFOLD (a) Remove the exhaust pipe clamp. If the oil seal retainer is removed from cylinder block. (a) Using a screwdriver and hammer, tap out the oil seal. Do not pull on the curds. INSPECT CAMSHAFT AND BEARING CAPS (a) Place the cam shaft on V- blocks and , using a dial indicator, measure the circle runout at the center journal. REMOVE PUMP DRIVE SPLINE AND CRANKSHAFT SPROCKET If the oil pump drive spline and sprocket cannot be removed by hand, use SST to remove them together. DISCONNECT FUEL HOSE (a) Put a suitable container or shop towel under the pressure regulator. INSPECT UNDERCUT DEPTH OF SEGMENT Check that the undercut depth is clean and free of foreign material. Place main bearing cap and lower thrust washers on cylinder block. (a) Install the thrust washers on the No.2 journal position of the bearing cap with the grooves facing outward. NOTICE: If using a high-pressure tube cleaner, be care- eful not to deform the fins of the radiator core. Uniformly tighten the bolts in several passes. MEASURE CONNECTING ROD THRUST CLEAR- ANCE Using a dial gauge, measure the thrust clearance. CONNECT VACUUM SENSING HOSE 5. Page 470 EG2-193 ENGINE - MFI SYSTEM STD Voltage Condition Terminals Trouble Cranking No voltage (1) There is no voltage between ECM terminals STA and E1. Page 11 IN-11 INTRODUCTION - ABBREVIATIONS USED IN THIS MANUAL Toyota Computer Controlled System TCCS Top Dead Center TEMP. Handle all MFI parts carefully especially the ECM. (d) Lightly tighten the hold-down bolt. SET NO.1 CYLINDER TO TDC/COMPRESSION (a) Turn the crankshaft pulley and align its groove with timing mark "0" of the No.1 timing belt cover. SELECT OVERSIZED PISTON O/S pistons with pins are available in the sizes listed. Page 66 EGI-32 ENGINE - ENGINE MECHANICAL 6. REMOVE NO. INSTALL NO.1 WATER BY-PASS PIPE (a) Remove any old packing (PIPG) material and be care-... (b) Apply seal packing to the cylinder head as shown in the illustration. (4WD) REMOVE OIL COOLER (a) Remove the No.1 and No.2 oil cooler hoses. CHECK EGR VALVE (a) Apply vacuum directly to the EGR valve with the engine idling. CONNECT COLD START INJECTOR CONNECTOR 4. DISCONNECT COLD START INJECTOR CONNec- 3. (b) Using the removed bearing cap bolts, pry the bearing cap fore and aft, and remove it with the lower bearing and thrust washers (No.3 journal only). (1) Using low compressed air (4.71 kPa (48 of/cm2, 0.68 psi), blow into the tank pipe and check that air flows without resistance from the other pipes. REMOVE PAIR REED VALVE AND NO.1 AIR INJECTION MANIFOLD Remove the two bolts, two nuts, the PAIR reed valve, injection manifold assembly and gasket. Page 523 EG2-246 ENGINE - MFI SYSTEM CIRCUIT OPENING RELAY CIRCUIT OPENING RELAY INSPECTION 1. Page 244 EGI-210 ENGINE - MFI SYSTEM FUEL PRESSURE CONTROL SYSTEM VSV INSPECTION 1. Number of Mal-... (c) Remove the two bolts and pipe bracket. REMOVE HOLD - DOWN BOLT AND PULL OUT DISTRIBUTOR DISTRIBUTOR INSTALLATION 1. (b) Remove the four nuts and seals. EGI-19 ENGINE - ENGINE MECHANICAL 4. (a) After hand-lapping, clean the valve and valve seat. Page 350 EG2-73 ENGINE - ENGINE MECHANICAL 14. Page 63 EGI-29 ENGINE - ENGINE MECHANICAL (e) Remove the caps and measure the Pistagage at its widest point. INSTALL PS PUMP PULLEY AND DRIVE BELT 27. Page 387 EG2-110 ENGINE - ENGINE MECHANICAL HINT (Use new cylinder block). Use a piston with the same number mark as the cylinder diameter marked on the cylinder block. CHECK PAIR SYSTEM WITH COAL ENGINE (a) The engine coolant temperature should be below 25 S C (77 SF). (1) After checking fuel pressure, disconnect the battery ground strap and carefully remove the SST to prevent gasoline from splashing. Page 410 EG2-133 ENGINE - ENGINE MECHANICAL 25. Page 471 EG2-194 ENGINE - MFI SYSTEM Terminals Trouble Condition STD Voltage No voltage Ignition switch ON (1) There is no voltage between ECM terminals # 10 and/or # 20 and E01 and/or E02. WARM UP ENGINE 2. (e) Remove the bearing caps. ADJUST VALVE CLEARANCE (a) Set the No. 1 cylinder to TDC/compression. Page 148 EGI-114 ENGINE - MFI SYSTEM DIAGNOSTIC TROUBLE CODES HINT: If a malfunction is detected during the diagnostic trouble code check, refer to the circuit indicated in the table, and turn to the corresponding page. (b) Install the intake manifold with the delivery pipe and injectors and No. 1 air pipe. REMOVE CAMSHAFT TIMING PULLEY'S Using SST, remove the pulley bolt, timing pulley and knock pin. 17. Page 278 EG2-1 ENGINE - 3VZ-E ENGINE... (IG SW ON) (2) Check that there is voltage between ECM terminals +B (+ B1) and E1. Page 40 EGI-6 ENGINE - ENGINE MECHANICAL Dye penetrant Engine turn- up tester Heater Magnetic finger Micrometer Piston ring compressor Piston ring expander Plastigage Precision straight edge Soft brush Spring tester Valve spring Steel square Valve spring Thermometer Torque wrench Valve seat cutter Vernier calipers SSM (SERVICE SPECIAL MATERIALS) 08826-00080 Seal packing or equivalent... Page 528 EG2-251 ENGINE - MFI SYSTEM EGR GAS TEMPERATURE SENSOR (California and C & C) EGR GAS TEMP. qts) Front Standard differential 1.6 liters (1.7 US qts, 1.4 Imp. INSPeCT EXHAUST PIPES AND MOUNTINGS Visually inspect the pipes, hangers and connections for severe corrosion, leaks or damage. Resistance: California 2WD only 4.5 - 6.0 Ω at 235C (73SF) Others 5.1 -... Page 489 EG2-212 ENGINE - MFI SYSTEM FUEL PRESSURE REGULATOR ON-VEHICLE INSPECTION CHECK FUEL-PRESSURE (See step 2 on page EG2-203) COMPONENTS FOR REMOVAL AND INSTALLATION FUEL PRESSURE REGULATOR REMOVAL 1. Torque: Bolt (A) 18 N-m (185 kgf-cm, TIGHTEN BOLTS AND NUTS ON CHASSIS AND BODY Tighten the following parts: Seat mounting bolts Torque: 37 N-m (375 kgf-cm, 27 ft-lb) Strut bar bracket-to -frame mounting bolts (2 Torque: 52 N-m (530 kgf-cm, 38 ft-lb) Leaf spring U -... Page 231 EGI-197 ENGINE - MFI SYSTEM THROTTLE BODY ON-VEHICLE INSPECTION 1. Torque: 40 N-m (410 kgf-cm, 30 ft-lb) (k) Connect the cold start injector tube with two new gasket and the union bolt. Page 583 IG-15 IGNITION SYSTEM - (3VZ-E) PRECAUTIONS IG051-02 1. (b) If you have no sound scope, you can check the in-... After replacing the drive belt, check that it fits properly in the ribbed grooves, especially in the places difficult to see. DISCONNECT WATER BY-PASS PIPE FROM RH CYLINDER HEAD Remove the bolt, and disconnect the water by-pass pipe from the RH cylinder head. Page 487 EG2-210 ENGINE - MFI SYSTEM (f) Connect the test probes of the SST to the battery and check that the fuel injection is as shown. WARM UP ENGINE Allow the engine to warm up to normal operating temperature. FILL WITH COOLANT 5. (a) With the engine running or cranking, use a sound scope to check that there is normal operating noise in proportion to engine rpm. Page 443 EG2-166 ENGINE - MFI SYSTEM IF VEHICLE IS EQUIPPED WITH MOBILE RADIO SYSTEM (HAM, CB, ETC) If the ECM has been designed so that it will not be affected by outside interference. Page 201 EGI-167 ENGINE - MFI SYSTEM STD Voltage\* Condition Trouble Terminals Coolant temperature 80 C Ignition switch No voltage (176 F) (1) There is no voltage between ECM terminals THW and E2 (E21) (IG SW ON) (2) Check that there is voltage between ECM terminal + B (+ B1) and body ground. (IG SW ON) (2) Check that there is voltage between ECM terminal +B (+B1) and body ground.\* (IG SW ON) Refer to No. Page 184 EGI-150 ENGINE - MFI SYSTEM Terminals Trouble Condition STD Voltage No voltage Ignition switch START position (1) There is no voltage between ECM terminals STA and E1. PREPARATION Disconnect the vacuum hose from the EGR valve and using a three-way union, connect a vacuum gauge to 3. (c) Place the head cover on the cylinder head and install the four seals and nuts. 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In ad- dition, used engine oil contains potentially harmful contaminants which may cause skin cancer. DRAIN ENGINE OIL (See step 1 on page EGI-236) 6. (IG SW ON) Check throttle position sensor. (c) Remove the head cover. If low, check for leaks and add coolant up to the "FULL"... Page 237 EGI-203 ENGINE - MFI SYSTEM 4. Page 335 EG2-58 ENGINE - ENGINE MECHANICAL 30. Page 202 EGI-168 ENGINE - M FI SYSTEM Terminals Trouble STD Voltage Voltage Condition STA - E 1 No voltage Ignition switch START position 6. (b) Using normal operating temperature. FILL WITH COOLANT 5. (a) With the engine running or cranking, use a sound scope to check that there is normal operating noise in proportion to engine rpm. Page 443 EG2-166 ENGINE - MFI SYSTEM IF VEHICLE IS EQUIPPED WITH MOBILE RADIO SYSTEM (HAM, CB, ETC) If the ECM has been designed so that it will not be affected by outside interference. 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