AUTOMATIC TRANSMISSION / TRANSAXLE SERVICE DATA

0305K-09

| A246E | | |
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| Line pressure (Wheel locked) | | |
| | Engine idling | |
| | D position | 382 - 422 kPa (3.9 - 4.3 kgf/cm ² , 55 - 61 psi) |
| | R position | 647 - 760 kPa (6.6 - 7.8 kgf/cm², 94 - 111 psi) |
| | At stall (Throttle valve fully opened) | |
| | D position | 713 – 844 kPa (7.27 – 8.61 kgf/cm², 103 – 122 psi) |
| | R position | 1,520 – 1,755 kPa (15.5 – 17.9 kgf/cm ² , 220 – 254 psi) |
| Engine stall revolution | D and R positions | 2,550 ± 150 rpm |
| Time lag | $N \rightarrow D$ position | Less than 1.2 seconds |
| | $N \rightarrow R$ position | Less than 1.5 seconds |
| Engine idle speed | | |
| (A/C OFF) | N position | 650 ± 50 rpm |
| Drive plate runout | Max. | 0.20 mm (0.0079 in.) |
| Differential oil seal drive in depth | LH side | $5.3 \pm 0.5 \text{ mm} (0.209 \pm 0.020 \text{ in.})$ |
| | RH side | $2.0 \pm 0.5 \text{ mm} (0.079 \pm 0.020 \text{ in.})$ |
| Shift schedule | | |
| D position | | |
| (Throttle valve fully opened) | | 55 – 64 km/h (34 – 40 mph) |
| | | 103 – 114 km/h (64 – 71 mph) |
| | | 161 – 178 km/h (100 – 110 mph) |
| | | 154 – 170 km/h (96 – 106 mph) |
| | | 96 – 105 km/h (60 – 65 mph) |
| (Throttle valve fully closed) | | 42 – 48 km/h (26 – 30 mph) 32 – 39 km/h (20 – 24 mph) |
| (Throttie valve fully closed) | | 15 – 21 km/h (9 – 13 mph) |
| 2 position | 3/2 70 | To Zi kilim (o To mpin) |
| (Throttle valve fully opened) | $1 \rightarrow 2$ | 55 – 64 km/h (34 – 40 mph) |
| , | | 97 – 107 km/h (60 – 66 mph) |
| | $2 \rightarrow 1$ | 42 – 48 km/h (26– 30 mph) |
| L position | | |
| (Throttle valve fully opened) | $2 \rightarrow 1$ | 46 - 53 km/h (29 - 33 mph) |
| Lock-up point | Throttle valve opening 5 % | |
| 3rd gear (O/D main switch OFF) | Lock-up ON | 70 – 79 km/h (43 – 49 mph) |
| | Lock-up OFF | 63 – 71 km/h (39– 44 mph) |
| O/D gear | | 57 – 65 km/h (35 – 40 mph) |
| | Lock-up OFF | 51 – 58 km/h (32 – 36 mph) |
| U240E | | |
| Line pressure (Wheel locked) | | |
| | Engine idling | |
| | D position | 373 - 412 kPa (3.8 - 4.2 kgf/cm ² , 54 - 60 psi) |
| | R position | 673 – 742 kPa (6.9 – 7.6 kgf/cm², 98 – 108 psi) |
| | At stall (Throttle valve fully opened) | |
| | D position | 931 – 1,031 kPa (9.5 – 10.5 kgf/cm ² , 135 – 150 psi) |
| | R position | 1,768 – 1,968 kPa (18.0 – 20.0 kgf/cm ² , 256 – 285 psi) |
| Engine stall revolution | D and R positions | 2,325 ± 150 rpm |
| Time lag | $N \to D$ position | Less than 1.2 seconds |
| | $N \to R$ position | Less than 1.5 seconds |
| Engine idle speed | | |
| (A/C OFF) | N position | $700 \pm 50 \text{ rpm}$ |
| Drive plate runout | Max. | 0.20 mm (0.0079 in.) |
| Differential oil seal drive in depth | LH side | 2.7 ± 0.5 mm (0.106 ± 0.020 in.) |
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2003 COROLLA MATRIX (RM940U)

Author: Date: 168

| Shift schedule | | |
|-------------------------------|----------------------------|---|
| D position | | |
| (Throttle valve fully opened) | $1 \rightarrow 2$ | 58 – 66 km/h (36 – 41 mph) |
| | $2 \rightarrow 3$ | 108 – 122 km/h (67 – 76 mph) |
| | $3 \rightarrow \text{O/D}$ | 172 – 189 km/h (107 – 117 mph) |
| | O/D ightarrow 3 | 166 – 182 km/h (103 – 113 mph) |
| | $3 \rightarrow 2$ | 101 – 114 km/h (63 – 71 mph) |
| | $2 \rightarrow 1$ | 43 – 49 km/h (27 – 30 mph) |
| (Throttle valve fully closed) | $3 \rightarrow O/D$ | 38 – 45 km/h (24 – 28 mph) |
| | O/D ightarrow 3 | 14 – 19 km/h (9 – 12 mph) |
| 2 position | | |
| (Throttle valve fully opened) | $1 \rightarrow 2$ | 58 – 66 km/h (36 – 41 mph) |
| | $3 \rightarrow 2$ | 108 – 121 km/h (67 – 75 mph) |
| | $2 \rightarrow 1$ | 43 – 49 km/h (27– 30 mph) |
| L position | | |
| (Throttle valve fully opened) | $3 \rightarrow 2$ | 108 – 121 km/h (67 – 75 mph) |
| | $2 \rightarrow 1$ | 50 – 57 km/h (31 – 35 mph) |
| Lock-up point | Throttle valve opening 5 % | |
| O/D gear | Lock-up ON | 72 – 81 km/h (45 – 50 mph) |
| | Lock-up OFF | 62 – 70 km/h (39 – 43 mph) |
| U341F | | |
| Line pressure (Wheel locked) | | |
| | Engine idling | |
| | D position | 372 - 412 kPa (3.8 - 4.2 kgf/cm ² , 54 - 60 psi) |

| U341F | | |
|--------------------------------------|--|---|
| Line pressure (Wheel locked) | | |
| | Engine idling | |
| | D position | 372 - 412 kPa (3.8 - 4.2 kgf/cm ² , 54 - 60 psi) |
| | R position | 553 - 623 kPa (5.6 - 6.4 kgf/cm ² , 80 - 100 psi) |
| | At stall (Throttle valve fully opened) | |
| | D position | 1,126 – 1,226 kPa (11.5 – 12.5 kgf/cm ² , 164 – 178 psi) |
| | R position | 1,764 - 1,964 kPa (18.0 - 20.0 kgf/cm ² , 256 - 284 psi) |
| Engine stall revolution | D and R positions | 2,550 ± 150 rpm |
| Time lag | $N \rightarrow D$ position | Less than 1.2 seconds |
| | $N \to R$ position | Less than 1.5 seconds |
| Engine idle speed | | |
| (A/C OFF) | N position | $650 \pm 50 \mathrm{rpm}$ |
| Drive plate runout | Max. | 0.20 mm (0.0079 in.) |
| Differential oil seal drive in depth | LH side | 2.7 ± 0.5 mm (0.106 ± 0.020 in.) |
| | RH side (Front transaxle case oil seal) | $4.0 \pm 0.5 \text{mm} (0.157 \pm 0.020 \text{in.})$ |
| | RH side (Front differential case oil seal) | $0 \pm 0.5 \text{mm} (0 \pm 0.020 \text{in.})$ |
| Shift schedule | | |
| D position | | |
| (Throttle valve fully opened) | $1 \rightarrow 2$ | 52 – 59 km/h (32 – 37 mph) |
| | $2 \rightarrow 3$ | 100 – 110 km/h (62 – 68 mph) |
| | $3 \rightarrow \text{O/D}$ | 161 – 173 km/h (100 – 108 mph) |
| | O/D ightarrow 3 | 154 – 165 km/h (96 – 103 mph) |
| | $3 \rightarrow 2$ | 94 – 104 km/h (58 – 65 mph) |
| | $2 \rightarrow 1$ | 43 – 48 km/h (27 – 30 mph) |
| (Throttle valve fully closed) | $3 \rightarrow \text{O/D}$ | 42 – 47 km/h (26 – 29 mph) |
| | $O/D \rightarrow 3$ | 31 – 36 km/h (19 – 22 mph) |
| 2 position | | |
| (Throttle valve fully opened) | $1 \rightarrow 2$ | 52 – 59 km/h (32 – 37 mph) |
| | $3 \rightarrow 2$ | 96 – 105 km/h (60 – 65 mph) |
| | $2 \rightarrow 1$ | 43 – 48 km/h (27– 30 mph) |
| L position | | |
| (Throttle valve fully opened) | $3 \rightarrow 2$ | 96 – 105 km/h (60 – 65 mph) |
| | $2 \rightarrow 1$ | 48 – 53 km/h (30 – 33 mph) |