SDS TOYOTA **Land Cruiser** (Hardtop & Canvas Top)

FJ 70, 73, 75 FZJ 70, 73, 75
RJ 70, 73, 77

Jan. '92

| | | 3F | 1FZ-F | 22R | 22R-E |
|---|---|---|---|---|---|
| cm³ or CC (cu. in.) | | 3956 (241.4) | 4477 (273.2) | 2367 (144.4) | |
| mm (in.) | | 9 – 12 (0.35 – 0.47) | 15 – 20 (0.59 – 0.79) | 7 – 10 (0.28 – 0.39) | |
| | | 15 – 21 (0.59 – 0.83) | 7 – 9.5 (0.28 – 0.37) | 9.5 – 13 (0.37 – 0.51) | —— |
| | | 8 – 10 (0.31 – 0.39) | —— | 10 – 14 (0.39 – 0.55) | |
| mm (in.) | ND | W14EX-U | K16R-U | W16EXR-U | |
| | NGK | BP4EY | BKR5EYA | BPR5EY | |
| | A | 0.8 (0.031) | | | |
| kΩ | | ⬇25 | | | |
| mm (in.) | A | 0.30 (0.0118) | —— | Middle East, General 0.45 (0.0177) Europe —— | —— |
| | B | 41° | —— | Middle East, General 52° Europe —— | —— |
| BTDC | | 3F: 7° | 1FZ-F·22R·22R-E: 3° | (w/Sub-Vacuum Advance Cut) 5° | (Check Connector TE1-E1 Connected) 5° |
| mm (in.) | | 0.20 (0.008) | 0.15 – 0.25 (0.006 – 0.010) | 0.20 (0.008) | |
| | | 0.35 (0.014) | 0.25 – 0.35 (0.010 – 0.014) | 0.30 (0.012) | |
| rpm | | 650 | 600 | 800 | |
| CO% | | 1.0 – 2.0 ※ | | 1.0 – 2.0 (Europe, Middle East) 0.5 – 2.5 (General) ※ | ⬇0.5 |

| | | | | |
|---|---|---|---|---|
| kPa (kgf/cm², psi) | | 814 (8.3, 118) (General (Low Octane)) 1030 (10.5, 149) (Others) | 902 (9.2, 131) (General (Low Octane)) 1030 (10.5, 149) (Others) | 1177 (12.0, 171) |
| | | ⬆588 (6.0, 86) (General (Low Octane)) ⬆785 (8.0, 114) (Others) | ⬆785 (8.0, 114) | ⬆981 (10.0, 142) |
| | | ⬇98 (1.0, 14) | ⬇49 (0.5, 7) | ⬇98 (1.0, 14) |
| –kPa (–mmHg, –in.Hg) | | ⬆53 (400, 15.75) (General (Low Octane)) ⬆56 (420, 16.54) (Others) | ⬆63 (473 18.6) | ⬆53 (400, 15.75) |
| kPa (kgf/cm², psi) | | ⬆29 (0.3, 4.3) | | |
| | 3,000 rpm | 245 – 490 (2.5 – 5.0 36 – 71) | | |
| N·m (kgf-cm, ft-lbf) | A | 123 (1250 90) | ① 39 (400, 29) ② 39 (400, 29) ③ 39 (400, 29) | 78 (800, 58) |
| | B | 50 (510, 37) 69 (700, 51) | 20 (210, 15) | 19 (195, 14) |
| | C | 56 (570, 41) | 39 (400 29) | 44 (450, 33) |

| | 3F | 1FZ-F | 22R | 22R-E |
|---|---|---|---|---|
| liter (US qts, Imp. qts) | 7.0 (7.4, 6.2) | 7.1 (7.5, 6.3) | 3.8 (4.0, 3.3) | |
| | 7.8 (8.2, 6.9) | 7.6 (8.0, 6.7) | 4.3 (4.5, 3.8) | |
| | API SG or better | | | |
| liter (US qts, Imp. qts) | W/Front Heater 16.5 (17.4, 14.5) W/Front and Rear Heater 18.5 (19.6, 16.3) | W/Front Heater 13.2 (14.0, 11.6) W/Front and Rear Heater 14.2 (15.0, 12.5) | W/Front Heater 10.0 (10.6, 8.8) W/Front and Rear Heater 11.0 (11.6, 9.7) | |

Printed in Japan C

※The CO concentration for Australian specification vehicles is not described.

TOYOTA MOTOR CORPORATION Pub. No. SDS222E

# Land Cruiser
(Hardtop & Canvas Top)

FJ 70-0018855~, 8500138~ FJ 73-0007774~
FJ 75-0105545~, 8001218~, 8501737~ FZJ 70, 73, 75
RJ 70-0007115~, 9002488~ RJ 73-9000390~ RJ 77-0005472~

TOYOTA
QUALITY SERVICE

| | FJ·FZJ | RJ |
|---|---|---|
| A | 181 (7.13) | |
| B | 13 – 23 (0.51 – 0.91) | 13 – 23 (0.51 – 0.91) |
| B | 15 – 30 (0.59 – 1.18) | — |
| C | ⬆25 (0.98) | |
| mm (in.) | SAE J1703<br>FMVSS No. 116 DOT3 | |

| | | |
|---|---|---|
| A | 161 – 171 (6.34 – 6.73) | |
| B | 3 – 6 (0.12 – 0.24) | |
| C | ⬆68 (2.68) | |
| mm (in.) | SAE J1703<br>FMVSS No. 116 DOT3 | |
| 196N (20kgf, 44lbf) | 7 – 9 | |
| A | ⬆4.0 (0.157) (Australia)<br>⬆1.0 (0.039) (Others) | ⬆1.0 (0.039) |
| B | ⬆18.0 (0.709) | ⬆16.0 (0.630) |
| B | ⬆11.5 (0.453) | — |
| mm (in.) | — | ⬆1.0 (0.039) |
| mm (in.) | — | ⬆1.5 (0.059) (FJ, FZJ)<br>⬆1.0 (0.039) (RJ) |
| mm (in.) | — | ⬇211 (8.31) |
| mm (in.) | — | ⬇297.0 (11.693) (FJ, FZJ)<br>⬇256.0 (10.079) (RJ) |

| | | |
|---|---|---|
| N (kgf, lbf) | 27 – 56 (2.8 – 5.7, 6.2 – 12.6) | 25 – 56 (2.6 – 5.7, 5.7 – 12.6) |
| N·m (kgf-cm, ft-lbf) | 157 (1600, 116) | |

| | FJ | FZJ | RJ |
|---|---|---|---|
| 1 3 / 2 4 R | — | — | 2.8 (3.0, 2.5) |
| 1 3 5 / 2 4 R | 4.9 (5.2, 4.3) | 2.7 (2.9, 2.4) | 2.6 (2.7, 2.3) |
| liter (US qts, Imp. qts) | API GL-4 or GL-5<br>SAE 75W-90 (FZJ / RJ)<br>SAE90 (FJ) | | |
| NO2 3 | — | | |
| liter (US qts, Imp. qts) | — | | |
| w/PTO | ⬆2.2 (2.3, 1.9)<br>⬆2.1 (2.2, 1.8) | 1.3 (1.4, 1.1) | 2.1 (2.2, 1.8) |
| | ⬆2.7 (2.8, 2.3)<br>⬆2.6 (2.7, 2.2) | 1.4 (1.5, 1.2) | 2.6 (2.7, 2.2) |
| liter (US qts, Imp. qts) | API GL-4 or GL-5<br>SAE 75W-90 (FZJ)<br>SAE90 (FJ, RJ) | | |
| | 2.6 (2.7, 2.3) | 2.5 (2.6, 2.2) | 1.98 (2.1, 1.7) | 1.85 (2.0, 1.6) |
| liter (US qts, Imp. qts) | API GL-5<br>With LSD use LSD oil only<br>SAE90 (⬆ – 18°C (0°F))<br>SAE80W, 80W-90<br>(⬇ – 18°C (10°F)) | | | |

| | FJ·FZJ·RJ |
|---|---|
| mm (in.) | ⬇40 (1.57) |

| | FJ-70, 73<br>FZJ-70, 73 | FJ-75L(R)<br>FZJ-75L(R)<br>V | FJ-75L(R)<br>FZJ-75L(R)<br>P | RJ |
|---|---|---|---|---|
| A | 1°±45′ | | | |
| B | 12°±45′ | | | |
| C | 3°15′ ±1° | 2°50′ ±1° | 2°30′ ±1° | 4°00′ ±1° |
| D | 32° +0° −3° | | | |
| E | 22° | | | 21° |
| F+G | −0.1°±0.2° (31×10.50R15-6PRLT / 265/75R15)<br>0.1°±0.2° (Others) | | | |
| F+G | 0.4°±0.2° | | | |
| H−I mm (in.) | −1±2 (−0.04±0.08) (31×10.50R15-6PRLT / 265/75R15)<br>1±2 (−0.04±0.08) (Others) | | | |
| H−I mm (in.) | 4±2 (0.16±0.08) | | | |

| | | | | |
|---|---|---|---|---|
| Australia kPa (kgf/cm², psi) | FJ70 | 7.50R16-6PRLT<br>265/75R15 112S | 200 (2.0, 28)<br>180 (1.8, 26) | 350 (3.5, 50)<br>200 (2.0, 28) | 240 (2.4, 34)<br>180 (1.8, 26) | 350 (3.5, 50)<br>200 (2.0, 28) |
| | FJ75 | 7.50R16-8PRLT | 220 (2.2, 32) | 390 (3.9, 55) | 240 (2.4, 34) | 420 (4.2, 60) |
| Europe kPa (kgf/cm², psi) | RJ70<br>73 | 7.00-16-6PRLT<br>215/80R16 107S<br>265/75R15 112S | 180 (1.8, 26)<br>160 (1.6, 23)<br>180 (1.8, 26) | 240 (2.4, 35)<br>200 (2.0, 29)<br>200 (2.0, 29) | 180 (1.8, 26)<br>180 (1.8, 26)<br>180 (1.8, 26) | 260 (2.6, 38)<br>220 (2.2, 31)<br>200 (2.0, 29) |
| General kPa (kgf/cm², psi) | RJ70 | 7.00-15-6PRLT<br>7.00R15-6PRLT<br>7.50-16-6PRLT<br>205R16C6PR<br>31×10.50R15-6PRLT<br>7.50R16-6PRLT | 180 (1.8, 26)<br>200 (2.0, 29)<br>180 (1.8, 26)<br>170 (1.7, 24)<br>180 (1.8, 26)<br>200 (2.0, 29) | 220 (2.2, 32)<br>275 (2.75, 40)<br>180 (1.8, 26)<br>200 (2.0, 29)<br>210 (2.1, 30)<br>225 (2.25, 33) | 180 (1.8, 26)<br>225 (2.25, 33)<br>180 (1.8, 26)<br>170 (1.7, 24)<br>180 (1.8, 26)<br>225 (2.25, 33) | 260 (2.6, 40)<br>300 (3.0, 44)<br>220 (2.2, 32)<br>240 (2.4, 34)<br>250 (2.5, 36)<br>250 (2.5, 36) |
| | RJ77 | 7.50-16-6PRLT<br>7.50R16-6PRLT<br>205R16C 6PR<br>31×10.50R-6PRLT | 180 (1.8, 26)<br>225 (2.25, 33)<br>200 (2.0, 29)<br>190 (1.9, 28) | 260 (2.6, 38)<br>350 (3.5, 51)<br>320 (3.2, 46)<br>280 (2.8, 41) | 180 (1.8, 26)<br>250 (2.5, 36)<br>200 (2.0, 29)<br>190 (1.9, 28) | 300 (3.0, 44)<br>375 (3.75, 54)<br>360 (3.6, 52)<br>300 (3.0, 44) |
| | FJ70<br>73<br>FZJ70<br>73 | 7.00-15-6PRLT<br>7.00R15-6PRLT<br>7.50-16-6PRLT<br>7.50R16-8PRLT<br>7.50R16-6PRLT<br>31×10.50R15-6PRLT | 180 (1.8, 26)<br>200 (2.0, 29)<br>180 (1.8, 26)<br>200 (2.0, 29)<br>200 (2.0, 29)<br>180 (1.8, 26) | 260 (2.6, 40)<br>275 (2.75, 40)<br>200 (2.0, 29)<br>225 (2.25, 32)<br>225 (2.25, 32)<br>250 (2.5, 36) | 220 (2.2, 31)<br>225 (2.25, 32)<br>180 (1.8, 26)<br>225 (2.25, 32)<br>225 (2.25, 32)<br>210 (2.1, 30) | 300 (3.0, 43)<br>300 (3.0, 43)<br>240 (2.4, 34)<br>250 (2.5, 36)<br>250 (2.5, 36)<br>280 (2.8, 40) |
| | FJ75<br>FZJ75 | 7.50R16-6PRLT<br>7.50-16-6PRLT<br>7.50-16-8PRLT<br>7.50-16-8PRLT<br>7.50R16-8PRLT<br>235/95R15C | 225 (2.25, 32)<br>180 (1.8, 26)<br>—<br>240 (2.4, 34)<br>225 (2.25, 32)<br>180 (1.8, 26) | 350 (3.5, 50)<br>—<br>350 (3.5, 50)<br>350 (3.5, 50)<br>375 (3.75, 53)<br>220 (2.2, 32) | 250 (2.5, 36)<br>180 (1.8, 26)<br>—<br>280 (2.8, 40)<br>250 (2.5, 36)<br>180 (1.8, 26) | 375 (3.75, 53)<br>—<br>400 (4.0, 57)<br>400 (4.0, 57)<br>400 (4.0, 57)<br>280 (2.8, 41) |

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