# SDS TOYOTA Coaster Diesel

BB40, 42, 50, 58
HZB50

May '97

| | | 3B | 14B | 15B–FT | 1HZ |
|---|---|---|---|---|---|
| | cm³ or CC (cu. in.) | 3432 (209.4) | 3661 (223.4) | 4104 (250.4) | 4164 (254.1) |
| mm (in.) N (kgf) ※ | | 11–16 (0.43–0.63) ※294–441 (30–45) (Single belt type) 14–20 (0.55–0.79) ※196–343 (20–35) (Double belt type) | | 14–20 (0.55–0.79) ※196–392 (20–40) | 8–11 (0.31–0.43) ※196–343 (20–35) |
| | | 11–15 (0.43–0.59) ※147–343 (15–35) | | | 18–20 (0.71–0.79) ※147–343 (15–35) |
| Ω 20°C (68°F) | | 1.10 | —— | —— | 12V 1.15 |
| | | | | | 24V G.C.C., M/T 2.90 Australia A/T, ※1 2.50 |
| secs 20°C (68°F) | | 2.4 | —— | Hong Kong 0.5 | 12V 5 |
| | | | | | 24V A/T, ※1 1.0 M/T, G.C.C., ※2 5 |
| mm (in.) | | 1.23–1.29 (0.0484–0.0508) | 1.31–1.37 (0.0516–0.0539) | 0.87–0.93 (0.0342–0.0366) | Australia 0.72–0.78 (0.0283–0.0307) Others 1.03–1.09 (0.0406–0.0429) |
| | | (14B, 15B–FT) | | (3B, 1HZ) | |
| kPa (kgf/cm², psi) | | 11280–13240 (115–135 1640–1920) | 17652–20594 (180–210 2560–2987) | 16180–18630 (165–190 2350–2700) | Australia 14220–15200 (145–155 2062–2205) Others 14710–15200 (150–155 2133–2204) |
| | | 12260–13240 (125–135 1780–1920) | 19613–20594 (200–210 2845–2987) | 17650–18630 (180–190 2560–2700) | Australia 14710–15200 (150–155 2133–2204) Others 14200–15200 (145–155 2062–2205) |
| mm (in.) | | 0.20 (0.008) | | | 0.15–0.25 (0.006–0.010) |
| | | 0.36 (0.014) | | | 0.35–0.45 (0.014–0.018) |

※1: Vehicles cold weather package ※2: Vehicles without cold weather package

| | | | | | |
|---|---|---|---|---|---|
| rpm | R 2 4 1 3 5 | 650–750 | Hong Kong 750–850 Others 600–700 | Taiwan 750–800 Others 700–750 | 600–700 |
| | | —— | —— | —— | 660–760 |
| | | 4050–4200 | 4050–4250 | 3900–4100 | 4500–4700 |
| kPa (kgf/cm², psi) | | 2942 (30.0, 427) | | 3138 (32.0, 455) | 3628 (37.0, 526) |
| | | ↑ 1961 (20.0, 284) | | | ↑ 2648 (27.0, 384) |
| | | ↓ 196 (2.0, 28) | | | ↓ 490 (5.0, 71) |
| N·m (kgf·cm, ft·lbf) | A | ① 49 (500, 36) ② 90° ③ 90° | | | ① 69 (700, 51) ② 90° ③ 90° |
| | B | 18.5 (189, 14) | | | 20 (200, 14) |
| | C | 47.5 (485, 35) | | 44.1 (450, 33) | 41.7 (425, 31) |
| | D | 70 (710, 52) | 18 (185, 13) | 21 (214, 15.5) | 64 (650, 47) |
| | E | 69 (700, 51) | 29 (300, 22) | | 47 (479, 35) |
| kPa (kgf/cm², psi) | | ↑ 29 (0.3, 4.3) | | | |
| | 3,000rpm | 245–588 (2.5–6.0, 36–85) | | | |

| | | 3B | 14B | 15B–FT | 1HZ |
|---|---|---|---|---|---|
| liter (US qts, Imp. qts) | | 8.4 (8.9, 7.4) | | | 8.5 (9.0, 7.5) |
| | | 9.3 (9.8, 8.2) | | | 9.8 (10.4, 8.6) |
| | | Use API CD (You may also use API CE or API CF.) | | | |
| liter (US qts, Imp. qts) | Europe Australia Ex–U.S.S.R. | 15.4 (16.3, 13.6) | —— | —— | 14.9 (15.7, 13.1) |
| | Others | —— | w/ Front Heater 14.2 (15.0, 12.5) w/ Front and Rear Heaters 15.0 (15.9, 13.2) 16.4 (17.3, 14.4) ※2 w/o Front and Rear Heaters 11.8 (12.5, 10.4) | w/ Front Heater 15.0 (15.9, 13.9) w/o Front and Rear Heaters 17.8 (18.8, 15.7) | w/ Front Heater 15.9 (16.8, 14.0) w/ Front end Rear Heaters 16.9 (17.9, 14.9) w/o Front and Rear Heaters 14.0 (14.8, 12.3) 18.2 (19.2, 16.0) ※2 |

Printed in Japan C

TOYOTA MOTOR CORPORATION

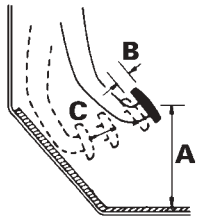
Pub. No. SDS384E

# Coaster Diesel

BB40-*5000131~, 8000254~, 9000230~* BB42-*0006003~, 7001176~*
BB50-*0001161~* BB58-*5000002~* HZB50-*0102464~, 6000367~, 8003405~*

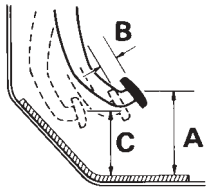
TOYOTA QUALITY SERVICE

## BB • HZB




| | |
|---|---|
| A | EX Grade 161.8–171.8 *(6.370–6.764)* Others 164.8–174.8 *(6.488–6.882)* |
| B | 15B–FT 10–25 *(0.4–1.0)* Others 5–15 *(0.2–0.6)* |
| C | ↑ 25 *(0.98)* |
| mm *(in.)* | **SAE J1703 FMVSS No. 116 DOT3** |

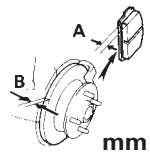
## BB • HZB




| | |
|---|---|
| A | EX Grade 169.2–179.2 *(6.661–7.055)* Others 172.2–182.2 *(6.780–7.173)* |
| B | 1–6 *(0.04–0.24)* |
| C | ↑ 90 *(3.54)* (No vacuum) |
| mm *(in.)* | **SAE J1703 FMVSS No. 116 DOT3** |

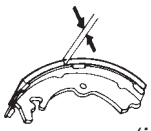


**245N** *(25kgf, 55lbf)* — 6–8



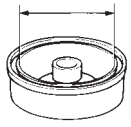

mm *(in.)*

| | |
|---|---|
| A | ↑ 1.0 *(0.039)* |
| B | ↑ 33.0 *(1.299)* |



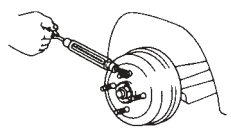
mm *(in.)*

| | |
|---|---|
| ↑ | 1.5 *(0.059)* |
| ↓ | 4.2 *(0.165)* |



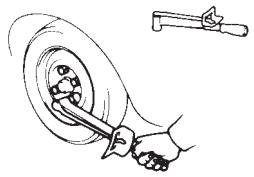
mm *(in.)*

| | | |
|---|---|---|
| ↑ | 6.3 in. | ↓ 161 *(6.34)* |
| | 7.9 in. | ↓ 201 *(7.91)* |
| ↓ | | 322 *(12.68)* |

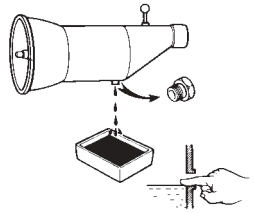
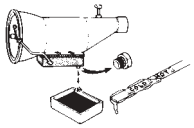
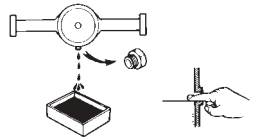


**N** *(kgf, lbf)*

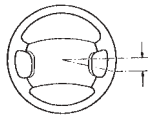
| 5–19 *(0.5–1.9 1.1–4.2)* | 10–29 *(1.0–3.0 2.2–6.6)* |
|---|---|



**N·m** *(kgf·cm, ft·lbf)* — 515 *(5250, 380)*

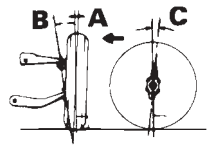
| | BB | HZB |
|---|---|---|
|  **liter** *(US qts, Imp. qts)* | 15B–FT 3.9 *(4.1, 3.4)* Others 3.2 *(3.4, 2.8)* | **API GL–4 or GL–5 SAE 75W–90** |
|  **liter** *(US qts, Imp. qts)* | 6.0 *(6.3, 5.3)* | **ATF DII or DEXRON®III (DEXRON®II)** |
|  **liter** *(US qts, Imp. qts)* | 3.8 *(4.0, 3.3)* | **Hypoid gear oil API GL–5** **SAE90** (↑ –18°C *(0°F)*) **SAE80W, 80W–90** (↓ –18°C *(0°F)*) |

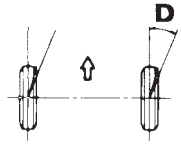
## BB • HZB

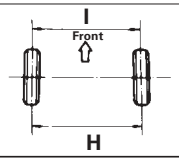


mm *(in.)* — ↓ 40 *(1.57)*

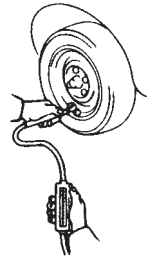
## BB • HZB




| | |
|---|---|
| A | 0°00′±45′ *(0°±0.75°)* |
| B | 13°00′ *(13°)* |
| C | 4°30′±45′ *(4.5°±0.75°)* |
| D | 39°00′±1°30′ *(39°±1.5°)* |
| H–I mm *(in.)* | 2.5±2 *(0.10±0.08)* (Tire Size 6.50R16) 3.5±2 *(0.14±0.08)* (Tire Size 7.00R16) |



kPa *(kgf/cm² or bar, psi)*

| | | | | |
|---|---|---|---|---|
| Australia | BB | 6.50R16–8PRLT | 475 *(4.75, 69)* | 375 *(3.75, 54)* |
| | HZB | 7.00R16–10PRLT | 525 *(5.25, 76)* | 300 *(3.00, 44)* |
| Others | BB | 6.50R16–10PRLT | 550 *(5.50, 80)* | 475 *(4.75, 69)* |
| | | 7.00R16–10PRLT | 475 *(4.75, 69)* | 375 *(3.75, 54)* |
| | | 7.00R16–8PRLT | —— | 375 *(3.75, 54)* |
| | HZB | 7.00R16–12PRLT | 600 *(6.00, 87)* | 375 *(3.75, 54)* |
| | | 7.00R16–10PRLT | 525 *(5.25, 76)* | 300 *(3.00, 44)* |
| | | 7.00R16–8PRLT | | |
| | | (EX Grade) | —— | 300 *(3.00, 44)* |
| | | (Others) | —— | 375 *(3.75, 54)* |

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