# 1. Brakes

## A: SPECIFICATIONS

| Engine (cc) | | | 2500 | | |
|---|---|---|---|---|---|
| Driving system | | | AWD | | |
| | | | BASE | L | S |
| Front disc brake | Type | | Disc (Floating type, ventilated) | | |
| | Effective disc diameter | mm (in) | 228 (8.98) | | |
| | Disc thickness × Outer diameter | mm (in) | 24 × 277 (0.94 × 10.91) | | |
| | Effective cylinder diameter | mm (in) | 42.8 (1.687) × 2 | | |
| | Pad dimensions (length × width × thickness) | mm (in) | 112.3 × 50.0 × 11.0 (4.42 × 1.969 × 0.433) | | |
| | Clearance adjustment | | Automatic adjustment | | |
| Rear disc brake | Type | | — | | Disc (Floating type) |
| | Effective disc diameter | mm (in) | — | | 230 (9.06) |
| | Disc thickness × Outer diameter | mm (in) | — | | 10 × 266 (0.39 × 10.47) |
| | Effective cylinder diameter | mm (in) | — | | 38.1 (1.500) |
| | Pad dimensions (length × width × thickness) | mm (in) | — | | 82.4 × 33.7 × 9.0 (3.244 × 1.327 × 0.354) |
| | Clearance adjustment | | — | | Automatic adjustment |
| Rear drum brake | Type | | Drum (Leading-Trailing type) | | — |
| | Effective drum diameter | mm (in) | 228.6 (9) | | — |
| | Effective cylinder diameter | mm (in) | 19.0 (0.748) | | — |
| | Lining dimensions (length × width × thickness) | mm (in) | 218.8 × 35.0 × 4.1 (8.61 × 1.378 × 0.161) | | — |
| | Clearance adjustment | | Automatic adjustment | | — |
| Parking brake | Type | | Mechanical on rear brakes, drum in disc | | |
| | Effective drum diameter | mm (in) | 228.6 (9) | | 170 (6.69) |
| | Lining dimensions (length × width × thickness) | mm (in) | 218.8 × 35.0 × 4.1 (8.61 × 1.378 × 0.161) | | 162.6 × 30.0 × 3.2 (6.40 × 1.181 × 0.126) |
| | Clearance adjustment | | Automatic adjustment | | Manual adjustment |
| Master cylinder | Type | | Tandem | | |
| | Effective diameter | mm (in) | 26.99 (1-1/16) | | |
| | Reservoir type | | Sealed type | | |
| | Brake fluid reservoir capacity | $cm^3$ (cu in) | 205 (12.51) | | |
| Brake booster | Type | | Vacuum suspended | | |
| | Effective diameter | mm (in) | 205 + 230 (8.07 + 9.06) | | |
| Proportioning valve | Split point | kPa ($kg/cm^2$, psi) | 3,678 (37.5, 533) | | |
| | Reducing ratio | | 0.3 | | |
| Brake line | | | Dual circuit system | | |
| ABS | | | — | STD | |

## B: SERVICE DATA

| ITEM | | STANDARD | SERVICE LIMIT |
|---|---|---|---|
| Front brake | Pad thickness (including back metal) | 17 mm (0.67 in) | 7.5 mm (0.295 in) |
| | Disc thickness | 24 mm (0.94 in) | 22 mm (0.87 in) |
| | Disc runout | — | 0.075 mm (0.0030 in) |
| Rear brake (Disc type) | Pad thickness (including back metal) | 14 mm (0.55 in) | 6.5 mm (0.256 in) |
| | Disc thickness | 10 mm (0.39 in) | 8.5 mm (0.335 in) |
| | Disc runout | — | 0.10 mm (0.0039 in) |
| Rear brake (Drum type) | Inside diameter | 228.6 mm (9 in) | 230.6 mm (9.08 in) |
| | Lining thickness | 4.1 mm (0.161 in) | 1.5 mm (0.059 in) |
| Rear brake (Disc type parking) | Inside diameter | 170 mm (6.69 in) | 171 mm (6.73 in) |
| | Lining thickness | 3.2 mm (0.126 in) | 1.5 mm (0.059 in) |
| Parking brake | Lever stroke | 7 to 8 notches/196N (20 kg,44 lb) | |

| | | Brake pedal force | Fluid pressure |
|---|---|---|---|
| Brake booster | Brake fluid pressure without engine running | 147 N (15 kg, 33 lb) | 588 kPa (6 kg/cm$^2$, 85 psi) |
| | | 294 N (30 kg, 66 lb) | 1,667 kPa (17 kg/cm$^2$, 242 psi) |
| | Brake fluid pressure with engine running and vacuum at 66.7 kPa (500 mmHg, 19.69 inHg) | 147 N (15 kg, 33 lb) | 5,394 kPa (55 kg/cm$^2$, 782 psi) |
| | | 294 N (30 kg, 66 lb) | 10,003 kPa (102 kg/cm$^2$, 1,450 psi) |

## C: RECOMMENDED BRAKE FLUID

FMVSS No. 116, fresh DOT3 or 4 brake fluid

**CAUTION:**
- **Avoid mixing brake fluid of different brands to prevent the fluid performance from degrading.**
- **When brake fluid is supplemented, be careful not to allow any dust into the reservoir.**
- **Use fresh DOT3 or 4 brake fluid when replacing or refilling the fluid.**

## D: BRAKE FLUID LEVEL INDICATOR

***Reserve tank with level indicator:***
***Residual fluid quantity at light ON***
***Approx. 80 cm$^3$ (4.88 cu in)***
***Tank capacity***
***205 cm$^3$ (12.51 cu in)***