

C. Chassis

1. FRAME 1) Frame design	Double cradle, high tensile frame
2. STEERING SYSTEM 1) Caster 2) Trail 3) Number and size of balls in steering head Upper race Lower race 4) Steering lock to lock	27° 115 mm (4.53 in) 19 pcs. 1/4 in 19 pcs. 1/4 in 42° each (L and R)
3. FRONT SUSPENSION 1) Type 2) Damper type 3) Front fork spring Free length Wire diameter x winding diameter Spring constant 4) Front fork travel 5) Inner tube O.D. 6) Front fork oil quantity and type 7) Distance from the top of inner tube oil level without spring	Telescopic fork Oil damper, coil spring 482 mm (18.98 in) 4 x 24.5 mm (0.157 x 0.965 in) $k_1 = 0.48 \text{ kg/mm (26.88 lb/in)}/$ 0 ~ 100 mm (0 ~ 3.94 in) $k_2 = 0.65 \text{ kg/mm (36.40 lb/in)}/$ 100 ~ 150 mm (3.94 ~ 5.91 in) 150 mm (5.906 in) 35 mm (1.378 in) 169 cc (5.72 oz) each leg Yamaha fork oil 10Wt or equivalent Approx. 454 mm (17.9 in)
4. REAR SUSPENSION 1) Type 2) Damper type 3) Shock absorber travel 4) Shock absorber spring Free length Wire diameter x winding diameter Spring constant 5) Swing arm free play (Limit) 6) Pivot shaft – Outside diameter	Swing arm Oil damper, coil spring 80 mm (3.15 in) 226 mm (8.90 in) 7.5 x 60.5 mm (0.295 x 2.382 in) $k_1 = 1.714 \text{ kg/mm (96.0 lb/in)}/$ 0 ~ 45 mm (0 ~ 1.77 in) $k_2 = 2.244 \text{ kg/mm (125.7 lb/in)}/$ 45 ~ 80 mm (1.77 ~ 3.15 in) 1 mm (0.04 in) 16 mm (0.63 in)

5. FUEL TANK 1) Capacity 2) Fuel grade	11.0 lit (2.9 US gal) Regular gasoline
6. WHEEL 1) Type (Front and rear) 2) Tire size (Front) (Rear) 3) Tire pressure: Up to 90 kg (198 lb) load 90 kg (198 lb)load ~ 204 kg (445 lb)load (Maximum load) High speed riding 4) Rim run out limit (Front and rear) Vertical Lateral 5) Rim size (Front) (Rear) 6) Bearing type Front wheel (Left) (Right) Rear wheel (Left) (Right) 7) Oil seal type Front wheel (Left) (Right) Rear wheel (Left) (Right) 8) Secondary drive chain type Type Number of links Chain pitch Chain free play	*Cast wheel **Spoke wheel 3.50S19-4PR 130/90S16-4PR Front: 1.6 kg/cm ² (22 psi) Rear: 2.0 kg/cm ² (28 psi) Front: 2.0 kg/cm ² (28 psi) Rear: 2.3 kg/cm ² (32 psi) Front: 2.0 kg/cm ² (28 psi) Rear: 2.3 kg/cm ² (32 psi) 2 mm (0.08 in) 2 mm (0.08 in) 1.85 x 19 *MT3.00 x 16 **2.75 x 16 *6302ZZ **B6303 *6302Z **B6303RS 6304Z 6305Z SDD-45-56-6 SD-22-42-7 SD-35-62-9 SO-27-52-5 50HDS 103L + Joint 15.875 mm (5/8 in) 20 ~ 30 mm (0.8 ~ 1.2 in)
7. BRAKE 1) Front brake Type Disc size (Outside dia. x thickness) Disc wear limit Disc pad thickness Pad wear limit Master cylinder inside dia. Caliper cylinder inside dia. Brake fluid type / quantity 2) Rear brake (XS650SF only) Type Disc size (Outside dia. x thickness) Disc wear limit Disc pad thickness Pad wear limit Master cylinder inside dia. Caliper cylinder inside dia. Brake fluid type / quantity	Hydraulic disc type 298 x 7.0 mm (11.73 x 0.28 in) 6.5 mm (0.26 in) 11.0 mm (0.43 in) 6.0 mm (0.24 in) 14.0 mm (0.55 in) 38.1 mm (1.50 in) DOT #3 Brake fluid / 38.1 cc (1.29 oz) Hydraulic disc type 267 x 7.0 mm (10.5 x 0.28 in) 6.5 mm (0.26 in) 11.0 mm (0.43 in) 6.0 mm (0.24 in) 14.0 mm (0.55 in) 38.1 mm (1.50 in) DOT #3 Brake fluid / 38.1 cc (1.29 oz)

3) Rear brake (XS650-2F only)

Type

Actuating method

Brake drum I.D.

Brake shoe dia. x width

Lining thickness/wear limit

Shoe spring free length

Drum brake (Leading trailing)

Link rod

180 mm (7.09 in)

180 x 30 mm (7.09 x 1.18 in)

4 mm/2 mm (0.16 in/0.08 in)

68 mm (2.68 in)