



Service data

Item		Specification
Master cylinder	Type	Tandem
	Cylinder I.D.	Ø 23.81 mm (0.937 in)
	Piston stroke	36±1 mm (1.41 ± 0.039 in)
	Fluid level switch	Provided
Brake booster	Type	8+8" Tandem
	Boosting ratio	9 : 1
Front disc brake (17 in)	Type	Ventilated disc
	Disc O.D.	Ø 320 mm (12.60 in)
	Disc thickness	28 mm (1.10 in)
	Caliper piston	Single
	Cylinder I.D.	Ø 60.0 mm (2.36 in)
Front disc brake (18 in)	Type	Ventilated disc
	Disc O.D.	Ø 350 mm (13.78 in)
	Disc thickness	30 mm (1.18 in)
	Caliper piston	4 piston
	Cylinder I.D.	Ø 44.0 mm (1.73 in) x 4
Rear disc brake (17 in)	Type	Solid disc
	Disc O.D.	Ø 314.0 mm (12.36 in)
	Disc thickness	13 mm (0.51 in)
	Caliper piston	Single
	Cylinder I.D.	Ø 42.84 mm (1.67 in)
Rear disc brake (18 in)	Type	Ventilated disc
	Disc O.D.	Ø 340 mm (13.38 in)
	Disc thickness	22 mm (0.87 in)
	Caliper piston	2 Piston
	Cylinder I.D.	Ø 42.0 mm (1.65 in) x 2
Parking brake	Type	DIH (Drum in hat)
	Actuation	190 mm (7.48 in)

Specification (ESC)

Part	Item	Standard value	Remark
HECU	System	4 Channel 4 Sensor (Solenoid)	Total control(ABS, EBD, TCS, ESP)
	Type	Motor, valve relay integrated type	
	Operating Voltage	10 - 16V	
	Operating Temperature	(-40°C to 125°C)	
	Motor power	270 W (-AEB) / 370 W (+AEB)	
Active Wheel speed sensor	Supply voltage	DC 4.5 - 20V	
	Output current low	5.9 - 8.4 mA	
	Output current high	11.8- 16.8 mA	
	Output range	1 - 2,500 Hz	
	Tone wheel	Front : 52 (2WD) / 48 (AWD)	
		Rear : 47	
	Air gap	Front : 0.4 - 1.5 mm (0.01 - 0.05 in)	
		Rear : 0.4 - 1.5 mm (0.01 - 0.05 in)	

Steering Wheel Angle Sensor	Operating Voltage	8 - 16V	
	Current Consumption	Max. 150 mA	
	Output measurement range	-780 - 799.9°	
	Operating Angular velocity	0 - 1016°/sec	

Service Standard

Items	Standard value
Brake pedal height	184.31 mm (7.25 in)
Brake pedal Full stroke	103.6 mm (4.07 in)
Stop lamp switch clearance	1.0 - 2.0 mm (0.04 - 0.08 in)
Brake pedal free play	3.0 - 8.0 mm (0.12 - 0.31 in)
Front brake disc pad thickness	17 in : 11.0 mm (0.43 in) 18 in : 10.6 mm (0.42 in)
Front brake disc pad service limit	17 in : 2.0 mm (0.08 in) 18 in : 2.8 mm (0.11 in)
Front brake disc thickness	17 in : 28.0 mm (1.10 in) 18 in : 30.0 mm (1.18 in)
Front brake disc service limit	17 in : 26.0 mm (1.02 in) 18 in : 28.0 mm (1.10 in)
Rear brake disc pad thickness	17 in : 9.0 mm (0.35 in) 18 in : 10.6 mm (0.42 in)
Rear brake disc pad service limit	17 in : 2.0 mm (0.08 in) 18 in : 2.8 mm (0.11 in)
Rear brake disc thickness	17 in : 13.0 mm (0.51 in) 18 in : 22.0 mm (0.86 in)
Rear brake disc service limit	17 in : 11.0 mm (0.43 in) 18 in : 20.0 mm (0.79 in)