

Features & Specifications

2019 DR650S



DR650SEL9

019: Solid Black

Key Features

- Ready to cruise around town, up the highway, or down your favorite trail
- Robust 644cc, air and oil-cooled, four-stroke thumper
- Smooth-shifting transmission with easy-pull clutch
- Convenient push-button electric starter
- Optional adjustable seat height (and even lower with accessory low-profile seat)

Overview

The 2019 Suzuki DR650S is quite possibly the best, all-around dual purpose motorcycle available today. Every DR650S is quality-built by Suzuki and features a reliable 644cc oil-cooled four-stroke single carried in a strong, steel semi-double cradle frame. The cartridge-style fork and link-style rear suspension can tackle tough trails or urban roads. So a variety of riders can enjoy this motorcycle, the seat height can be significantly reduced. Strong aluminum, spoke-style rims carrying tires that can handle the street or dirt are fitted so riders can tackle pavement or soil with ease. With new Solid Black bodywork complete with distinctive red and silver graphics, the DR650S will look good on any surface it's ridden on.

Engine Features

- The compact and powerful 644cc, SOHC, four-stroke, air & oil-cooled, engine features the Suzuki Advanced Cooling System (SACS). Piston-jet cooling and an engine oil cooler create consistent performance in a variety of conditions.
- The engine is tuned with an emphasis on performance in the low-to-mid RPM range, while a gear-driven balancer shaft minimizes vibration for comfortable ride.
- Suzuki Composite Electrochemical Material (SCEM) coated aluminum cylinder is used for durability, light weight and excellent heat dissipation.
- Digitally mapped DC-CDI ignition system provides accurate spark timing for efficient combustion.
- A convenient electric starter (supplemented with a zero-maintenance automatic decompression system) provides easy, quick starting.
- Large MIKUNI 40mm carburetor provides a smooth intake flow and quick throttle response.
- The stainless-steel exhaust system is light and corrosion-resistant, and is tuned specifically for strong low and midrange power.
- Easy-pull rack and pinion activated clutch proves precise operation and feel.
- A smooth-shifting 5-speed transmission is complemented by a sealed O-ring drive chain.



DR650SEL9

019: Solid Black

Chassis Features

- A lightweight, compact, rigid semi-double cradle frame provides agile handling on and off road.
- Innovative, height-adjustable* front fork provides smooth and progressive action. Large diameter, thin-walled tubes reduce unsprung weight while maintaining high rigidity.
- A link-type rear suspension with piggyback-style aluminum-body shock absorber provides stable performance. The height adjustable* shock features adjustable spring preload and compression damping to personalize the suspension for rider, load and terrain.

** Seat and suspension height adjustability is engineered into the chassis of the DR650S. The chassis/seat height can be reduced nearly two inches by your Suzuki Dealer using a Genuine Suzuki Accessory side-stand & instruction kit. Additional reduction in seat height is available by installing the Suzuki Genuine Accessory low-profile seat.*

Chassis Features (continued)

- Front and rear suspensions provides generous 260mm (10.2-inch) wheel travel for superb performance over rough terrain.
- Lightweight 290mm (11.4-inch) front floating disc brake with two-piston caliper and 240mm (9.4-inch) rear disc brake with two-piston caliper provide reliable stopping power.
- Aluminum rims with stainless steel spokes are standard and are built for durability and strength
- The wheels are fitted with 90/90-21 front and 120/90-17 rear tires that offer excellent on and off road traction.
- Hollow-type wheel axles and an aluminum, beam-style swingarm reduce unsprung weight.
- A long, comfortable seat, aluminum footpegs and grab handles allow you to carry a passenger with ease.

Electrical Features

- Powered by a lightweight and compact low-maintenance battery.
- Easy, push-button electric starting via a compact rare-earth magnet starting motor (and a automatic decompression system built into the camshaft).
- A fully equipped lighting system comes with a bright 60/55W halogen headlight.

Additional Features

- Seat height may be lowered by 40mm (1.6 in) using a Genuine Suzuki Accessory kit. The kit includes a shorter side stand to match the chassis height adjustment.
- Further seat height reduction is possible with the fitment of the Suzuki Accessory low-profile seat.
- Other Genuine Suzuki Accessories include a cargo rack, skid plate and a selection of Suzuki apparel is available.
- 12-month limited warranty. Longer coverage periods with other benefits are available through Suzuki Extended Protection (SEP).
- For more details, please visit www.suzukicycles.com.

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Specifications DR650SEL9

E-03: USA, E-33: California

DIMENSIONS AND CURB MASS

Overall length.....	2255 mm (88.8 in)
	2235 mm (88.0 in) (Low seat)
Overall width.....	865 mm (34.1 in)
Overall height.....	1195 mm (47.0 in)
	1155 mm (45.5 in) (Low seat)
Wheelbase.....	1490 mm (58.7 in)
	1475 mm (58.1 in) (Low seat)
Ground clearance.....	265 mm (10.4 in)
	225 mm (8.9 in) (Low seat)
Seat height.....	885 mm (34.8 in)
	845 mm (33.0 in) (Low seat)
Curb mass.....	166 kg (366 lbs)

ENGINE

Type.....	4-stroke, air-cooled, OHC
Number of cylinders.....	1
Bore.....	100 mm (3.937 in)
Stroke.....	82 mm (3.228 in)
Displacement.....	644 cm ³ (39.3 cu. in)
Compression ratio.....	9.5 : 1
Carburetor.....	MIKUNI BST40, single
Air cleaner.....	Polyurethane foam element
Starter system.....	Electric
Lubrication system.....	Wet sump
Idle speed.....	1500 ± 100 r/min

DRIVE TRAIN

Clutch.....	Wet multi-plate type
Transmission.....	5-speed constant mesh
Gearshift pattern.....	1-down, 4-up
Primary reduction ratio.....	2.178 (61/28)
Gear ratios, Low.....	2.416 (29/12)
2nd.....	1.625 (26/16)
3rd.....	1.238 (26/21)
4th.....	1.000 (21/21)
Top.....	0.826 (19/23)
Final reduction ratio.....	2.800 (42/15)
Drive chain.....	DID525V9, 110 links

CHASSIS

Front suspension.....	Telescopic, coil spring, oil damped
Rear suspension.....	Link type, coil spring, oil damped
Front fork stroke.....	260 mm (10.2 in)
	220 mm (8.7 in) (Low seat)
Rear wheel travel.....	260 mm (10.2 in)
	220 mm (8.7 in) (Low seat)
Caster.....	28° 30'
Trail.....	111 mm (4.37 in)
Steering angle.....	43° (right & left)
Turning radius.....	2.5 m (8.2 ft)
Front brake.....	Disc brake
Rear brake.....	Disc brake
Front tire.....	90/90-21 M/C 54S, tube type
Rear tire.....	120/90-17 M/C 64S, tube type

Specifications DR650SEL9

E-03: USA, E-33: California

ELECTRICAL

Ignition type	Electronic ignition (CDI)
Ignition timing	10° B.T.D.C. at 1500 r/min
Spark plug	NGK CR10E or DENSO U31ESR-N
Battery	12V 28.8 kC (8 Ah)/10 HR
Generator	Three-phase A.C. generator
Main fuse	30A
Fuse	10/10A
Headlight	12V 60/55W
Brake/Tail light	12V 21/5W
Turn signal light	12V 21W
License plate light	12V 5W
Speedometer light	12V 1.7W
Neutral indicator light	12V 2W
High beam indicator light	12V 2W
Turn signal indicator light	12V 2W

CAPACITIES

Fuel tank, including reserve	12.0 L (3.2/2.6 US/Imp gal)	E-33
	13.0 L (3.4/2.9 US/Imp gal)	E-03
reserve	3.0 L (0.8/0.7 US/Imp gal)	
Engine oil, oil change	2300 ml (2.4/2.0 US/Imp qt)	
with filter change	2400 ml (2.5/2.1 US/Imp qt)	
overhaul	2600 ml (2.7/2.3 US/Imp qt)	

Service Data DR650SEL9

E-03: USA, E-33: California

VALVE + GUIDE

Unit: mm (in)

ITEM	STANDARD		LIMIT
Valve diam.	IN.	33 (1.3)	—
	EX.	28 (1.1)	—
Valve clearance (when engine is cold)	IN.	0.08 – 0.13 (0.003 – 0.005)	—
	EX.	0.17 – 0.22 (0.0067 – 0.0087)	—
Valve guide to valve stem clearance	IN.	0.010 – 0.037 (0.0004 – 0.0015)	—
	EX.	0.030 – 0.057 (0.0012 – 0.0022)	—
Valve stem deflection	IN. & EX.	—	0.35 (0.014)
Valve guide I.D.	IN. & EX.	5.500 – 5.512 (0.2165 – 0.2170)	—
Valve stem O.D.	IN.	5.475 – 5.490 (0.2156 – 0.2161)	—
	EX.	5.455 – 5.470 (0.2148 – 0.2154)	—
Valve stem runout	IN. & EX.	—	0.05 (0.002)
Valve head thickness	IN. & EX.	—	0.5 (0.02)
Valve stem end length	IN. & EX.	—	2.7 (0.11)
Valve seat width	IN. & EX.	0.9 – 1.1 (0.035 – 0.043)	—
Valve head radial runout	IN. & EX.	—	0.03 (0.001)
Valve spring free length (IN. & EX.)	INNER	—	34.4 (1.35)
	OUTER	—	38.1 (1.50)
Valve spring tension (IN. & EX.)	INNER	58 – 66 N (5.9 – 6.7 kgf, 13.0 – 14.8 lbs) at length 27.5 mm (1.1 in)	—
	OUTER	135 – 155 N (13.8 – 15.8 kgf, 30.4 – 34.8 lbs) at length 31.0 mm (1.2 in)	—

CAMSHAFT + CYLINDER HEAD

Unit: mm (in)

ITEM	STANDARD		LIMIT
Cam height	IN.	33.710 – 33.750 (1.3272 – 1.3287)	33.410 (1.3154)
	EX.	33.700 – 33.740 (1.3268 – 1.3283)	33.400 (1.3150)
Camshaft journal oil clearance	Right & Center	0.032 – 0.066 (0.0013 – 0.0026)	0.150 (0.0059)
	Left	0.028 – 0.059 (0.0011 – 0.0023)	0.150 (0.0059)
Camshaft journal holder I.D.	Right & Center	22.012 – 22.025 (0.8666 – 0.8671)	—
	Left	17.512 – 17.525 (0.6894 – 0.6900)	—
Camshaft journal O.D.	Right & Center	21.959 – 21.980 (0.8645 – 0.8654)	—
	Left	17.466 – 17.484 (0.6877 – 0.6883)	—
Camshaft runout	—		0.10 (0.004)
Rocker arm I.D.	IN. & EX.	12.000 – 12.018 (0.4724 – 0.4731)	—
Rocker arm shaft O.D.	IN. & EX.	11.973 – 11.984 (0.4714 – 0.4718)	—
Cylinder head distortion	—		0.05 (0.002)
Cylinder head cover distortion	—		0.05 (0.002)

CYLINDER + PISTON + PISTON RING

Unit: mm (in)

ITEM	STANDARD		LIMIT
Piston to cylinder clearance	0.020 – 0.030 (0.0008 – 0.0012)		0.120 (0.0047)
Cylinder bore	100.000 – 100.015 (3.9371 – 3.9376)		Nicks or Scratches
Piston diam.	99.975 – 99.990 (3.9360 – 3.9366) Measure at 21 mm (0.8 in) from the skirt end.		99.880 (3.9323)
Cylinder distortion	—		0.05 (0.002)
Piston ring free end gap	1st	R	Approx. 13.5 (0.53)
	2nd	R	Approx. 11.4 (0.45)
Piston ring end gap	1st	0.30 – 0.45 (0.012 – 0.018)	
	2nd	0.45 – 0.60 (0.018 – 0.024)	
Compression pressure (Automatic decomp. actuated)	Approx. 850 kPa (8.5 kgf/cm ² , 120 psi)		—

ITEM	STANDARD		LIMIT
Piston ring to groove clearance	1st	—	0.180 (0.0071)
	2nd	—	0.150 (0.0059)
Piston ring groove width	1st	1.230 – 1.250 (0.048 – 0.049)	—
	2nd	1.210 – 1.230 (0.047 – 0.048)	—
	Oil	2.810 – 2.830 (0.110 – 0.111)	—
Piston ring thickness	1st	1.170 – 1.190 (0.0461 – 0.0469)	—
	2nd	1.150 – 1.170 (0.0453 – 0.0461)	—
Piston pin bore	23.002 – 23.008 (0.9056 – 0.9058)		23.030 (0.9067)
Piston pin O.D.	22.996 – 23.000 (0.9054 – 0.9055)		22.980 (0.9047)

CONROD + CRANKSHAFT

Unit: mm (in)

ITEM	STANDARD	LIMIT
Conrod small end I.D.	23.006 – 23.014 (0.9057 – 0.9061)	23.040 (0.9071)
Conrod deflection	—	3.0 (0.12)
Conrod big end side clearance	0.10 – 0.65 (0.004 – 0.026)	1.00 (0.039)
Conrod big end width	24.95 – 25.00 (0.982 – 0.984)	—
Crankshaft runout	—	0.05 (0.002)
Crank web to web width	71.0 ± 0.1 (2.795 ± 0.004)	—

OIL PUMP

ITEM	STANDARD	LIMIT
Oil pump reduction ratio	1.633 (61/28 × 30/20 × 15/30)	—
Oil pressure (at 60 °C, 140 °F)	Above 30 kPa (0.3 kgf/cm ² , 4.3 psi) Below 70 kPa (0.7 kgf/cm ² , 10.0 psi) at 3 000 r/min	—

CLUTCH

Unit: mm (in)

ITEM	STANDARD		LIMIT
Clutch lever play	10 – 15 (0.4 – 0.6)		—
Drive plate thickness	No. 1 & No. 2	2.9 – 3.1 (0.11 – 0.12)	2.6 (0.10)
Driven plate distortion	—		0.10 (0.004)
Clutch spring free length	—		33.0 (1.30)

DRIVE TRAIN

Unit: mm (in) Except ratio

ITEM	STANDARD		LIMIT
Primary reduction ratio	2.178 (61/28)		—
Final reduction ratio	E-03, 28, 33	2.800 (42/15)	—
	E-24	2.733 (41/15)	—
Gear ratios	Low	2.416 (29/12)	—
	2nd	1.625 (26/16)	—
	3rd	1.238 (26/21)	—
	4th	1.000 (21/21)	—
	Top	0.826 (19/23)	—
Shift fork to groove clearance	0.10 – 0.30 (0.004 – 0.012)		0.50 (0.020)
Shift fork groove width	5.0 – 5.1 (0.197 – 0.200)		—
Shift fork thickness	4.8 – 4.9 (0.189 – 0.193)		—
Drive chain	Type	DAIDO: D.I.D. 525V9	—
	Links	110	—
	20-pitch length	—	319.4 (12.57)
Drive chain slack	30 – 45 (1.2 – 1.8)		—

CARBURETOR

ITEM	SPECIFICATION	
	E-03	E-33
Carburetor type	MIKUNI BST40SS	←
Bore size	40 mm	←
I.D. No.	32E1	32E6
Idle r/min	1 500 ± 100 r/min	←
Float height	14.7 ± 1.0 mm (0.58 ± 0.04 in)	←
Main jet (M.J.)	# <i>140</i>	←
Jet needle (J.N.)	6F23	←
Needle jet (N.J.)	<i>Y-5M</i>	←
Throttle valve (Th.V.)	#95	←
Pilot jet (P.J.)	# <i>42.5</i>	←
Starter jet (S.J.)	#40	←
Pilot screw (P.S.)	PRE-SET	←
Throttle cable play (pulling cable)	2.0 – 4.0 mm (0.08 – 0.16 in)	←

ELECTRICAL

Unit: mm (in)

ITEM		SPECIFICATION		NOTE
Spark plug	Type	ND.: U31ESR-N N.G.K.: CR10E		
	Gap	0.7 – 0.8 (0.028 – 0.031)		
Spark performance	Over 8 (0.3) at 1 atm.			
Ignition coil resistance	Primary	0.07 – 0.12 Ω		B – B/W
	Secondary	23 – 25 kΩ		Plug cap – Plug cap
Generator coil resistance	Charging	0.5 – 0.9 Ω		Y – Y
	Power source	0.1 – 0.2 Ω		B – W
	Pick-up	170 – 256 Ω		BI – G
Generator no-load voltage	More than 75 V (AC) at 5 000 r/min			
Generator Max. output	Approx. 200 W at 5 000 r/min			
Regulated voltage	13.0 – 16.0 V at 5 000 r/min			
Starter relay resistance	3 – 5 Ω			
Battery	Type designation	YTX9-BS		
	Capacity	12 V 28.8 kC (8 Ah)/10 HR		
	Standard electrolyte S.G.	1.320 at 20 °C (68 °F)		
Fuse size	Main	30 A		
	Headlight (H)	10 A		
	Headlight (L)	10 A		

WATTAGE

Unit: W

ITEM		SPECIFICATION	
		E-03, 33	
Headlight	HI	60	
	LO	55	
Brake light/Taillight		21/5	
Turn signal light		21	
Speedometer light		1.7	
Turn signal indicator light		2	
High beam indicator light		2	
Neutral indicator light		2	
License light		5	

BRAKE + WHEEL

Unit: mm (in)

ITEM	STANDARD		LIMIT
Rear brake pedal height	5 (0.2)		—
Brake disc thickness	Front	4.0 ± 0.2 (0.157 ± 0.008)	3.5 (0.14)
	Rear	4.5 ± 0.2 (0.177 ± 0.008)	4.0 (0.16)
Brake disc runout	—		0.30 (0.012)
Master cylinder bore	Front	12.700 – 12.743 (0.5000 – 0.5017)	—
	Rear	12.700 – 12.743 (0.5000 – 0.5017)	—
Master cylinder piston diam.	Front	12.657 – 12.684 (0.4983 – 0.4994)	—
	Rear	12.657 – 12.684 (0.4983 – 0.4994)	—
Brake caliper cylinder bore	Front	27.000 – 27.050 (1.0630 – 1.0650)	—
	Rear	30.23 – 30.28 (1.1902 – 1.1921)	—
Brake caliper piston diam.	Front	26.90 – 26.95 (1.0591 – 1.0610)	—
	Rear	30.16 – 30.18 (1.1874 – 1.1882)	—
Wheel rim runout	Axial	—	2.0 (0.08)
	Radial	—	2.0 (0.08)
Wheel axle runout	Front	—	0.25 (0.010)
	Rear	—	0.25 (0.010)

ITEM	STANDARD		LIMIT
	Tire rim size	Front	
Rear		17M/C × MT2.50	—
Tire size	Front	90/90-21M/C 54S	—
	Rear	120/90-17M/C 64S	—
Tire tread depth	Front	—	3.0 (0.12)
	Rear	—	3.0 (0.12)

SUSPENSION

Unit: mm (in)

ITEM	STANDARD	LIMIT	NOTE
Front fork stroke	260 (10.2)	—	
	220 (8.7)	—	Low seat
Front fork spring free length	—	548 (21.6)	
Front fork oil level	164 (6.5)	—	
	150 (5.9)	—	Low seat
Rear shock absorber spring pre-set length	247.5 (9.74)	—	
Rear wheel travel	260 (10.2)	—	
	220 (8.7)	—	Low seat
Swingarm pivot shaft runout	—	0.3 (0.01)	

TIRE PRESSURE

COLD INFLATION TIRE PRESSURE	SOLO RIDING			DUAL RIDING		
	kPa	kgf/cm ²	psi	kPa	kgf/cm ²	psi
FRONT	150	1.50	22	175	1.75	25
REAR	175	1.75	25	200	2.00	29

FUEL + OIL

ITEM	SPECIFICATION		NOTE
Fuel type	Use only unleaded gasoline of at least 87 pump octane (R/2 + M/2) or 91 octane or higher rated by the research method. Gasoline containing MTBE (Methyl Tertiary Butyl Ether), less than 10% ethanol, or less than 5% methanol with appropriate cosolvents and corrosion inhibitor is permissible.		
Fuel tank capacity	Including reserve	12 L (3.2/2.6 US/Imp gal)	E-33
		13 L (3.4/2.9 US/Imp gal)	E-03
	Only reserve	3.0 L (0.8/0.7 US/Imp gal)	
Engine oil type	SAE 10W-40, API SF/SG or SH/SJ with JASO MA		
Engine oil capacity	Oil change	2 300 ml (2.4/2.0 US/Imp qt)	
	Oil and filter change	2 400 ml (2.5/2.1 US/Imp qt)	
	Engine overhaul	2 600 ml (2.7/2.3 US/Imp qt)	
Front fork oil type	Fork oil #10		
Front fork oil capacity (each leg)	565 ml (19.1/19.9 US/Imp oz)		
	563 ml (19.0/19.8 US/Imp oz)		Low seat
Brake fluid type	DOT 4		

TIGHTENING TORQUE ENGINE

ITEM	N·m	kgf-m	lbf-ft
Cylinder head cover bolt	10	1.0	7.0
Camshaft sprocket bolt	15	1.5	11.0
Cylinder head bolt	38	3.8	27.5
Cylinder head nut	25	2.5	18.0
Cylinder base nut	10	1.0	7.0
Cam drive chain tensioner fitting bolt	13	1.3	9.5
Generator rotor bolt	160	16.0	115.5
Cam drive chain adjuster mounting bolt	10	1.0	7.0
Spark plug	11	1.1	8.0
Crankcase bolt	11	1.1	8.0
T.D.C. plug	23	2.3	16.5
Oil gallery	23	2.3	16.5
Oil nozzle bolt	10	1.0	7.0
Generator cover plug	15	1.5	11.0
Starter clutch bolt	25	2.5	18.0
Primary drive gear nut	100	10.0	72.5
Clutch spring mounting bolt	10	1.0	7.0
Clutch sleeve hub nut	50	5.0	36.0
Gearshift arm stopper	19	1.9	13.5
Engine oil drain plug	23	2.3	16.5
Engine sprocket bolt	6	0.6	4.5
Engine mounting bolt 8 mm Diam.	40	4.0	29.0
Engine mounting bolt 10 mm Diam.	65	6.5	47.0
Engine mounting bracket bolt (Upper and Front)	40	4.0	29.0
(Rear)	23	2.3	16.5
Exhaust pipe bolt	26	2.6	19.0
Muffler mounting bolt	26	2.6	19.0
Crankshaft bearing ring nut	80	8.0	58.0
Engine oil pipe union bolt (Cylinder head)	23	2.3	16.5
(Crankcase)	20	2.0	14.5
Engine oil cooler hose bolt	10	1.0	7.0
Cam drive chain adjuster cap bolt	6	0.6	4.5

CHASSIS

ITEM	N·m	kgf·m	lbf·ft
Front axle	65	6.5	47.0
Front axle holder nut	10	1.0	7.0
Front fork damper rod bolt	30	3.0	21.5
Front fork lower clamp bolt	26	2.6	19.0
Front fork upper clamp bolt	29	2.9	21.0
Front fork cap bolt	23	2.3	16.5
Steering stem head nut	90	9.0	65.0
Handlebar clamp bolt	23	2.3	16.5
Handlebar holder nut	25	2.5	18.0
Front brake master cylinder mounting bolt	10	1.0	7.0
Front brake caliper mounting bolt	26	2.6	19.0
Brake caliper axle bolt (Front & Rear)	23	2.3	16.5
	13	1.3	9.5
Brake hose union bolt (Front & Rear)	23	2.3	16.5
Brake pad mounting pin (Front & Rear)	18	1.8	13.0
Front brake pad mounting pin plug	2.5	0.25	1.8
Brake air bleeder valve (Front & Rear)	8	0.8	6.0
Brake disc mounting bolt (Front & Rear)	23	2.3	16.5
Swingarm pivot nut	77	7.7	55.5
Front footrest bolt	39	3.9	28.0
Chain roller mounting bolt (Upper & lower)	40	4.0	29.0
Rear brake master cylinder mounting bolt	10	1.0	7.0
Rear brake rod lock-nut	18	1.8	13.0
Rear shock absorber bolt (Upper & lower)	55	5.5	40.0
Rear cushion lever nut	(Front)	80	8.0
	(Center)	100	10.0
Rear cushion rod nut	100	10.0	72.5
Rear axle nut	100	10.0	72.5
Rear sprocket mounting nut	27	2.7	19.5
Spoke nipple (Front & Rear)	4.5	0.45	3.0