

## 14 GENERAL INFORMATION

### Model Identification

#### ZL900-A1 Left Side View:



#### ZL900-A1 Right Side View:



## General Specifications

Items	ZX900-A1
<b>Dimensions:</b>	
Overall length	2,200 mm, (C) (SA) (U) 2,150 mm
Overall width	750 mm
Overall height	1,215 mm
Wheelbase	1,495 mm
Road clearance	140 mm
Seat height	780 mm
Dry weight	2,240 N (228 kg), (CA) 2,240 N (228.5 kg)
Curb weight:	1,210 N (123 kg), (CA) 1,210 N (123.5 kg)
	Front
	Rear
Fuel tank capacity	22.0 L
<b>Performance:</b>	
Climbing ability	30°
Braking distance	12.5 m from 50 km/h
Minimum turning radius	2.7 m
<b>Engine:</b>	
Type	4-stroke, DOHC, 4-cylinder
Cooling system	Liquid-cooled
Bore and stroke	72.5 x 55.0 mm
Displacement	908 mL
Compression ratio	11.0
Maximum horsepower	Max. 84.6 kW (115 PS) @9,500 r/min (rpm), (C) (U) 80.9 kW (110 PS) @9,500 r/min (rpm), (S) 50.7 kW (69 PS) @6,000 r/min (rpm)
Maximum torque	85.3 N-m (8.7 kg-m, 62.9 ft-lb) @8,500 r/min (rpm) (S) 85.3 N-m (8.7 kg-m, 62.9 ft-lb) @5,000 r/min (rpm)
Carburetion system	Carburetors, Keihin CVK34 x 4
Starting system	Electric starter
Ignition system	Battery and coil (transistorized)
Timing advance	Electronically advanced
Ignition timing	From 10° BTDC @1,000 r/min (rpm) to 35° BTDC @3,500 r/min (rpm)
Spark plug	NGK DR8ES or ND X27ESR-U (C) NGK DR8ES-L or ND X24ESR-U (S) (U) NGK D9EA or ND X27ES-U (U) NGK D8EA or ND X24ES-U

(Continued on next page.)

## 1-6 GENERAL INFORMATION

Items	ZX900-A1
Cylinder numbering method Firing order Valve timing: Inlet Open Close Duration Exhaust Open Close Duration Lubrication system Engine oil: Grade Viscosity Capacity	Left to right, 1-2-3-4 1-2-4-3 45° BTDC 66° ABDC 290° 66° BBDC 45° ATDC 290° Forced lubrication (wet sump with cooler) SE class SAE10W40, 10W50, 20W40, or 20W50 4.0 L
<b>Drive Train:</b> Primary reduction system: Type Reduction ratio Clutch type Transmission: Type Gear ratios: 1st 2nd 3rd 4th 5th 6th Final drive system: Type Reduction ratio Overall drive ratio	Gear 1.732 (97/56) Wet multi disc 6-speed, constant mesh, return shift 2.800 (42/15) 2.000 (38/19) 1.590 (35/22) 1.333 (32/24) 1.153 (30/26) 1.035 (29/28) Chain drive 2.882 (49/17), (C) (U) 2.941 (50/17) 5.170, (C) (U) 5.278 @Top gear
<b>Frame:</b> Type Caster (rake angle) Trail Front tire: Type Size Rear tire: Type Size	Tubular, diamond 29° 114 mm Tubeless 120/80V16-V250 Tubeless 130/80V18-V250

Items	ZX900-A1
Front suspension: Type Wheel travel Rear suspension: Type Wheel travel Brake type: Front Rear	Telescopic fork (pneumatic) 140 mm Swing arm (unitrak) 115 mm Dual disc Single disc
<b>Electrical Equipment:</b> Battery Headlight: Type Bulb Tail/brake light Alternator: Type Rated output Voltage regulator: Type	12 V 14 Ah Semi-sealed beam 12 V 60/55 W (quartz-halogen) 12 V 5/21 W x 2, (C) (SA) (I) 12 V 8/27 W x 2 Three-phase AC 25 A @6,000 r/min (rpm), 14 V Short-circuit

Specifications subject to change without notice, and may not apply to every country.

- (C) : Canadian Model
- (CA) : Californian Model
- (I) : Italian Model
- (O) : Other than Europe Model
- (S) : Swiss Model
- (SA) : South African Model
- (U) : US Model



OPERATION	FREQUENCY	*ODOMETER READING							See Page
		8000 km	5,000 km	10,000 km	15,000 km	20,000 km	25,000 km	30,000 km	
Brake master cylinder cup and dust seal – replace	2 years								11-9
Caliper piston seal and dust seal – replace	2 years								11-6
Brake light switch – check †		*	*	*	*	*	*	*	16-34
Steering – check †		*	*	*	*	*	*	*	13-4
Steering stem bearing – lubricate	2 years				*	*			13-6
Front fork oil – change			*	*	*	*	*		12-5
Tire wear – check †		*	*	*	*	*	*		9-9
Wheel bearing – lubricate	2 years				*	*			9-12
Speedometer gear – lubricate	2 years				*	*			9-13
Swing arm pivot, uni-trak linkage – lubricate			*	*	*	*	*		12-14
Battery electrolyte level – check †	month	*	*	*	*	*	*	*	16-8
General lubrication – perform			*	*	*	*	*	*	17-8
Nut, bolt, and fastener tightness – check †		*	*	*	*	*	*	*	17-8

\* : For higher odometer readings, repeat at the frequency interval established here.

† : Replace, add, adjust, clean, or torque if necessary.

(Cal) : California vehicle only

(US) : US only

# Fuel System

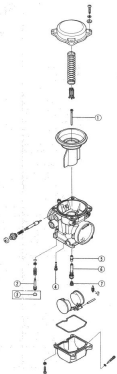
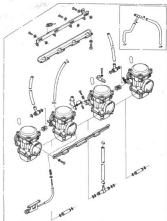
## Table of Contents

2

Exploded View .....	2-2
Specifications .....	2-4
Special Tools .....	2-4
<b>Throttle Grip and Cable</b> .....	2-5
<i>Throttle Grip Play Inspection</i> .....	2-5
<i>Throttle Cable Adjustment</i> .....	2-5
<i>Throttle Cable Lubrication</i> .....	2-5
<i>Throttle Cable Inspection</i> .....	2-5
<b>Choke Cable</b> .....	2-6
<i>Choke Cable Free Play Inspection</i> .....	2-6
<i>Choke Cable Adjustment</i> .....	2-6
<i>Choke Cable Lubrication</i> .....	2-6
<i>Choke Cable Inspection</i> .....	2-6
<b>Carburetor</b> .....	2-7
<i>Idle Speed Inspection</i> .....	2-7
<i>Idle Speed Adjustment</i> .....	2-7
<i>Vacuum Synchronization Inspection</i> .....	2-7
<i>Butterfly Valve Synchronization</i> .....	2-7
<i>Fuel Level Inspection</i> .....	2-8
<i>Fuel Level Adjustment</i> .....	2-8
<i>Fuel System Clean/Leak Inspection</i> .....	2-9
<i>Carburetor Removal/Installation Notes</i> .....	2-9
<i>Carburetor Disassembly/Assembly Notes</i> .....	2-9
<i>Carburetor Separation/Assembly Notes</i> .....	2-10
<i>Carburetor Cleaning</i> .....	2-11
<i>Carburetor Inspection</i> .....	2-11
<b>Air Cleaner</b> .....	2-12
<i>Air Cleaner Element Removal</i> .....	2-12
<i>Air Cleaner Element Installation</i> .....	2-12
<i>Air Cleaner Element Cleaning</i> .....	2-13
<i>Air Cleaner Element Inspection and Replacement</i> .....	2-13
<b>Fuel Tank</b> .....	2-14
<i>Fuel Tank Removal</i> .....	2-14
<i>Fuel Tank Installation</i> .....	2-14
<i>Fuel Tap Removal</i> .....	2-14
<i>Fuel Tap Installation</i> .....	2-14
<i>Fuel Tank and Tap Cleaning</i> .....	2-15
<i>Fuel Tap Inspection</i> .....	2-15
<i>Fuel Tank and Cap Inspection</i> .....	2-15
<b>Responsive Emission Control System (US California Vehicle Only)</b> .....	2-15
<i>Parts Removal/Installation Notes</i> .....	2-15
<i>Flow Inspection</i> .....	2-15
<i>Separator Inspection</i> .....	2-15
<i>Separator Operation Test</i> .....	2-16
<i>Canister Inspection</i> .....	2-16
<i>Fuel Tank and Cap Inspection</i> .....	
<i>(See Fuel Tank section)</i> .....	
<b>Fuel Gauge and Level Sensor</b> .....	
<i>(See Electrical System chapter)</i> .....	

## 2-2 FUEL SYSTEM

### Exploded View



1. Jet Needle
2. Pilot Screw
3. Plug (US model only)
4. Pilot Jet
5. Needle Jet
6. Needle Jet Holder
7. Main Jet
8. Fuel Level Sensor



