

SPECIFICATIONS

ENGINE

Throttle grip free play : 2_ 6mm
Spark plug : NGK: DPR7EA9
Spark plug gap : 0.9~1.0mm
Valve clearance : IN: 0.1mm EX: 0.1mm
Idle speed : 1700±100rpm

Engine oil capacity: Cylinder compression : 15±2kg/cm_
At disassembly : 1.1 liter Ignition timing : repeatedly
At change : 0.9 liter Coolant capacity : 1400±20cc
Gear oil capacity : Radiator capacity : 1000±20cc
At disassembly : 0.20 liter Reserve tank capacity : 400±20cc
At change : 0.18 liter

TIRE

	1 Rider	2 Riders
Front	1.75kg/cm_	1.75kg/cm_
Rear	2.00kg/cm_	2.25kg/cm_

TIRE SPECIFICATION:

Front : 120/70-12

Rear : 140/70-12

TORQUE VALUES

Front axle nut : 14.8_ 68.6N·m

Rear axle nut : 107.8_ 127.4N·m

3. INSPECTION/ADJUSTMENT

MAINTENANCE SCHEDULE

Perform the periodic maintenance at each scheduled maintenance period.

I: Inspect, and Clean, Adjust, Lubricate or Replace if necessary.

A: Adjust C: Clean R: Replace T: Tighten

Item	Frequency	Whichever comes first ⇨ ↓	Regular Service Mileage (km)					
			1000	2000	4000	6000	8000	10000
Engine oil			R New motorcycle 300km	R	R	R	R	R
Engine oil filter screen					C		C	
Fuel filter			Replace at every 6000km					
Gear oil	Note 3		R New motorcycle 300km		R			R
Valve clearance				A	A		A	
Carburetor					I		I	
Air Cleaner	Note 2,3		I		R			R
Spark plug			Clean at every 3000km and replace if necessary					
Brake system			I	I	I	I	I	I
Drive belt							I	
Suspension					I		I	
Nut, bolt, fastener							I	
Tire					I		I	
Steering head bearing			I			I	I	
Brake fluid			Perform pre-ride inspection daily					
Radiator coolant			Replace every year or at every 10000km (R)					
Radiator core						I		I
Radiator cap						I		I
Brake lever					I			I
Brake shoe wear					I			I
Shock absorber					I			I

In the interest of safety, we recommend these items be serviced only by an authorized KYMCO motorcycle dealer.

Note: 1. For higher odometer readings, repeat at the frequency interval established here.

2. Service more frequently when riding in dusty or rainy areas.

3. Service more frequently when riding in rain or at full throttle.

3. INSPECTION/ADJUSTMENT

ENGINE OIL

OIL LEVEL INSPECTION

Stop the engine and support the motorcycle upright on level ground.
Wait for 2_ 3 minutes and check the oil level with the dipstick. Do not screw in the dipstick when making this check.

Oil Dipstick



OIL CHANGE

- * Drain the oil while the engine is warm.

Remove the oil drain bolt to drain the engine oil.
Install the aluminum washer and tighten the oil drain bolt.

Torque: 14.7N-m

- * Replace the aluminum washer with a new one if it is deformed or damaged.

Pour the recommended oil through the oil filler hole.

Oil Capacity:

At disassembly: 1.1 liter

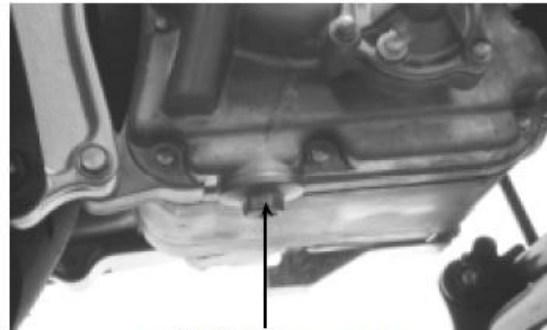
At change: 0.9 liter

Recommended Oil:

SAE: 15W40#

API: SJ

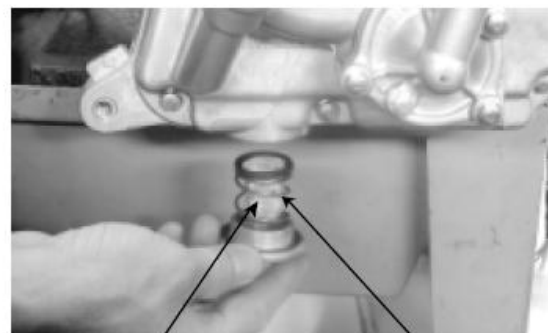
Start the engine and check for oil leaks.
Stop the engine and recheck the oil level.



Oil Filter Screen Cap

OIL FILTER SCREEN INSPECTION

Drain the engine oil.
Remove the oil filter screen and spring.
Clean the oil filter screen.
Install the oil filter screen, spring, and filter screen cap.
Fill the engine with recommended engine oil.



Oil Filter Screen

Spring

FINAL REDUCTION GEAR OIL

- * Place the motorcycle on its main stand on level ground.

Stop the engine and remove the oil checks bolt.

The oil level shall be at the oil check blowhole.

If the oil level is low, add the recommended oil SAE90# to the proper level.

Install the oil check bolt.

- * Make sure that the sealing washer is in good condition.

OIL CHANGE

Remove the oil check bolt.

Remove the oil drains bolt and drain the oil thoroughly.

Install the oil drain bolt.

Torque: 9.8N-m

- * Make sure that the sealing washer is in good condition.

Fill the final reduction with the recommended oil SAE90#.

Gear Oil Capacity:

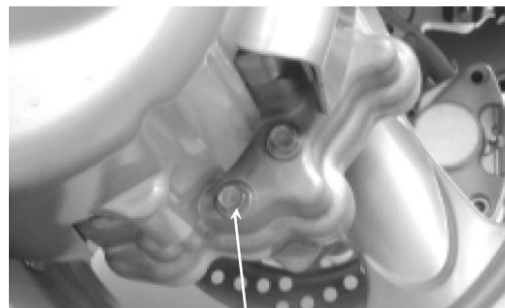
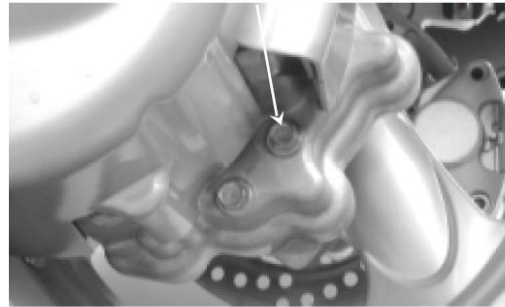
At disassembly : 200cc

At change : 180cc

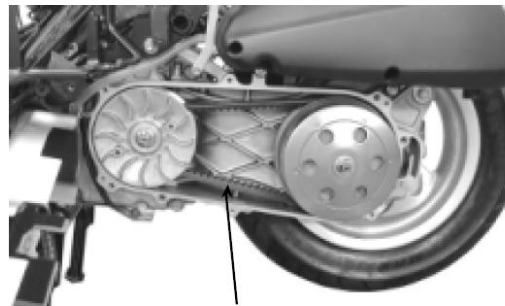
Reinstall the oil check bolt and check for oil leaks.

DRIVE BELT

Oil Check Bolt Hole/Oil Filler



Oil Drain Bolt/Sealing



Drive Belt

3. INSPECTION/ADJUSTMENT

FINAL REDUCTION GEAR OIL

- * Place the motorcycle on its main stand on level ground.

Stop the engine and remove the oil check bolt.

The oil level shall be at the oil check blowhole.

If the oil level is low, add the recommended oil SAE90# to the proper level.

Install the oil check bolt.

- * Make sure that the sealing washer is in good condition.

OIL CHANGE

Remove the oil check bolt.

Remove the oil drain bolt and drain the oil thoroughly.

Install the oil drain bolt.

Torque: 9.8N-m

- * Make sure that the sealing washer is in good condition.

Fill the final reduction with the recommended oil SAE90#.

Gear Oil Capacity:

At disassembly : 200cc

At change : 180cc

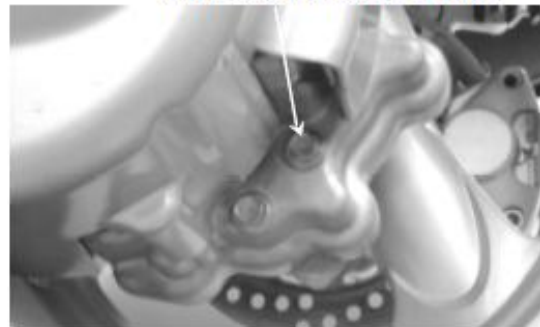
Reinstall the oil check bolt and check for oil leaks.

DRIVE BELT

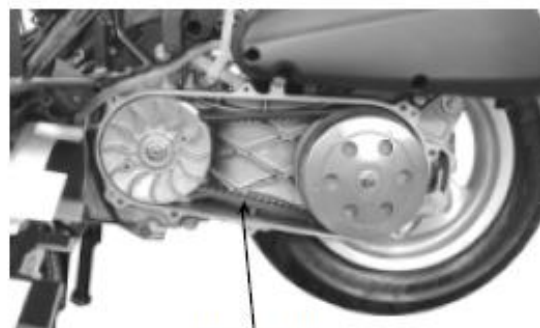
Remove the left crankcase cover.

Inspect the drive belt for cracks or excessive

Oil Check Bolt Hole/Oil Filler



Oil Drain Bolt/Sealing



Drive Belt

3. INSPECTION/ADJUSTMENT

NUTS/BOLTS/FASTENERS

Check all important chassis nuts and bolts for looseness.

Tighten them to their specified torque values if any looseness is found.

WHEELS/TIRES

Check the tires for cuts, imbedded nails or other damages.

Check the tire pressure.

* Tire pressure should be checked when tires are cold.



Pressure Gauge

Tire Pressure

	1 Rider	2 Riders
Front	1.75kg/cm ₂	1.75kg/cm ₂
Rear	2.00kg/cm ₂	2.25kg/cm ₂

1. GENERAL INFORMATION

SPECIFICATIONS

Cooling Type	Water cooling
--------------	---------------

Name & Model No.		SH50DA		
Motorcycle Name & Type		GRAND DINK 250		
Overall length		2060mm		
Overall width		770mm		
Overall height		1360mm		
Wheel base		1435mm		
Engine type		Water cooled 4-stroke, OHC engine		
Displacement		249cc		
Fuel Used		92# nonleaded gasoline		
Net weight (kg)	Front wheel	58		
	Rear wheel	92		
	Total	150		
Gross weight(kg)	Front wheel	63.5		
	Rear wheel	99.5		
	Total	163		
Tires	Front wheel	120/70-12		
	Rear wheel	140/70-12		
Ground clearance		140mm		
Performance	Braking distance (m)	7.0m/30km/hr		
	Min. turning radius	2350mm		
Engine	Starting system		Starting motor	
	Type		Gasoline, 4-stroke	
	Cylinder arrangement		Single cylinder	
	Combustion chamber type		Semi-sphere	
	Valve arrangement		O.H.C.	
	Bore x stroke (mm)		72.7 x 60	
	Compression ratio		10.3:1	
	Compression pressure (kg/cm ²)		15±2	
	Max. output (kw/rpm)		13.4/7000	
	Max. torque (N.m/rpm)		19.6/5500	
	Port timing	Intake	BTDC	8
			ABDC	42
		Exhaust	BBDC	33
			ATDC	1
	Valve clearance (cold)	Intake	0.1	
		Exhaust	0.1	
	Idle speed (rpm)		1700±100rpm	
	Lubrication System	Lubrication type		Forced pressure & wet sump
		Oil pump type		Inner/outer rotor type
		Oil filter type		Full-flow filtration
Oil capacity		1.1 liters		

Fuel System	Air cleaner type & No		Paper element, wet	
	Fuel capacity		9.1 liters	
	Carburetor	Type	CVK	
		Piston dia.	30	
Venturi dia.		30 equivalent		
Throttle type		Butterfly type		
Electrical	Type		CDI	
	Ignition timing		repeatedly	
	Contact breaker		Non-contact point type	
	Spark plug		NGK DPR7EA-9	
	Spark plug gap		0.9mm	
	Battery	Capacity	12V10AH	
Power Drive System	Clutch	Type	Dry multi-disc clutch	
		Transmission Gear	Type	Non-stage transmission
	Operation		Automatic centrifugal Type	
	Reduction Gear	Type	Two-stage reduction	
		Reduction ratio	1st	0.83~2.2
		2nd	6.98	
Moving Device	Front Axle	Caster angle		27
		Connecting rod		
	Tire pressure (kg/cm ²)	Front	2.00	
		Rear	2.25	
Turning angle	Left	45		
	Right	45		
Brake system type	Front	Disk brake		
	Rear	Disk brake		
Damping Device	Suspension type	Front	Telescope	
		Rear	Double swing	
Shock absorber type	Front	Telescope		
	Rear	Double swing		
Frame type		Under bone		

