2004 - 2006



SERVICE MANUAL SPORTSTER 2004 - 2006

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QUICK REFERENCE DATA

MODEL:__

YEAR:

VIN NUMBER:

ENGINE SERIAL NUMBER:_

CARBURETOR SERIAL NUMBER:_

TIRE INFLATION PRESSURE (COLD)*

	PSI	kPa	
Front wheel			
Rider only	30	207	
Rider and passenger	30	207	
Rear wheel			
Rider only	36	248	
Rider and passenger	40	276	

*Tire pressure for original equipment tires. Aftermarket tires may require different inflation pressure.

ENGINE OIL SPECIFICTIONS Amblent operating temperature Туре **HD** rating Viscosity HD Multi-grade HD360 SAE 10W/40 Below 40° F HD Multi-grade HD Regular heavy Above 40° F Above 60° F HD360 SAE 20W/50 SAE 50 HD360 HD Extra heavy HD360 SAE 60 Above 80° F

RECOMMENDED LUBRICANTS AND FLUIDS

Brake fluid	DOT 5	
Front fork oil	HD Type E or equivalent	
Fuel		
Type*	Unleaded	
Octane		
XL883 models	Pump research octane of 87 or higher	
XL1200 models	Pump research octane of 91 or higher	
Transmission		
2004-2005	HD Sport Trans Fluid or equivalent	
2006-on	HD Formulat Lubricant or equivent	

ENGINE AND PRIMARY DRIVE/TRANSMISSION OIL CAPACITIES

Engine oil with filter replacement	3.6 qt. (3.4 L)
Transmission oil (includes primary chaincase)	32 oz (946 ml)

FRONT FORK OIL CAPACITY		
Model	Capacity*	
XL883L, XL1200L	12.3 oz. (364 ml)	
All other models	11.6 oz. (342 ml)	
*Each fork leg.	in the	

Model	Capacity*	
XL883, XL883L, XL883R, XL1200R	3.3 gal. (12.5 L)	
XL883C, XL1200C, XL1200L	4.5 gal. (17.0 L)	

MAINTENANCE AND TUNE-UP SPECIFICATIONS

Item	Specification	
Brake pad minimum thickness	0.04 in. (1.02 mm)	
Clutch cable free play	1/16-1/8 in. (1.6-3.2 mm)	
Drive belt deflection	and the second	
XL883, XL883R, XL1200R	3/8-7/16 in. (9.5-11.1 mm)	
XL883C, XL883L, XL1200C, XL1200L	1/4-5/16 in. (6.4-7.9 mm)	
Engine compression		
XL883 models	125-140 psi (862-966 kPa)	
XL1200 models	200-225 psi (1380-1552 kPa)	
Idle speed	950-1050 rpm	
Ignition timing	Non-adjustable	
Spark plug	HD-6R12*	
Gap	0.038-0.043 in. (0.97-1.09 mm)	

*The manufacturer does not recommend another spark plug type.

MAINTENANCE AND TUNE-UP TORQUE SPECIFICATIONS

ltem	ftlb.	inib.	N∘m
Air filter cover screws	-	36-60	4.1-6.8
Air filter element retaining screws	-	40-60	4.5-6.8
Clutch inspection cover screws		84-108	9.5-12.0
Front fork cap	22-58		30-78
Front fork drain screw	-	13-17	1.5-2.0
Primary chain adjuster locknut	20-25	-	28-34
Primary chain inspection cover bolts		40-60	4.5-6.8
Rear axle nut*			
2004	60-65	-	81-88
2005-on	72-78	-	98-106
Spark plug	12-18	-	17-24
Transmission drain plug	14-30	-	19-40

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