

PRE-OPERATION CHECKS (DAILY)

Before using this motorcycle check the following points:

No.	Item	Routing	Page
1	Brake (Front)	Check operation, free play and fluid level. Top-up with D.O.T.#3 brake fluid if necessary.	20,44-48
2	Brake (Rear)	Check operation, free play and adjust if necessary.	20,45-48
3	Clutch	Check operation, condition and free play. Adjust if necessary.	20,48-50
4	Engine Oil	Check engine oil level. top-up with Yamalube 4cycle oil or SAE 20W/40 type "SE" motor oil if necessary.	21, 42~43
5	Drive Chain	Check chain tension and condition. Adjust/lubricate if necessary.	21,50-52
6	Throttle	Check for smooth operation. Adjust if necessary.	21, 52~53
7	Battery	Check fluid level, top-up with distilled water if necessary.	21, 55~57
8	Lights/Signal:	Check operation.	
9	Wheels/Tires	Check tire pressure, wear, damage.	
10	Fittings/Fasteners	Check all chassis fittings and fasteners. Adjust if necessary.	

NOTE: _____

Pre-operation checks should be made each time the motorcycle is used. Such an inspection can be accomplished in a very short time, and the added safety it assures is more than worth the time involved.

WARNING:

1. The engine, exhaust pipe(s), and muffler(s) will be very hot after the engine has been run. Be careful not to touch them or to allow any clothing item to contact them during inspection or repair.
2. If any item in the PRE-OPERATION CHECK is not working properly, have it inspected and repaired before operating the machine.

Brakes (See page 44 for more detail)

1. Brake lever and brake pedal

Check for correct play in the front brake lever and rear brake pedal. Make sure they are working properly. Check the brakes at low speed shortly after starting out.

-WARNING:

A soft, spongy feeling in the brake lever indicates a failure in the brake system. Do not operate the motorcycle until the failure in the brake system is corrected. Ask your Yamaha dealer or other qualified mechanic for immediate repairs. Such a soft, spongy feeling could indicate a hazardous condition in the brake system.

2. Brake fluid

Check the brake fluid level. Add fluid if necessary.

Recommended brake fluid: DOT #3

3. Checking the disc pads

Refer to page 46.

NOTE:

When this brake service is necessary, have your Yamaha dealer or other qualified mechanic replace the pads.

Brake fluid leakage

Apply each brake for a few minutes. Check to see if any brake fluid leaks out from pipe joints or the master cylinder(s).

WARNING:

If brake fluid leakage is found, see your Yamaha dealer or other qualified mechanic for immediate repairs. Such leakage could indicate a hazardous condition in the brake system.

Clutch (See page 48 for more detail)

Check for correct play in the clutch lever and make sure the lever operates properly. If the play is incorrect, make an adjustment.

Engine oil (See page 42 for more detail)
Make sure the engine oil is at the specified level. Add oil as necessary.

Recommended oil:

YAMALUBE 4-cycle oil or
SAE 20W/40 type "SE" motor oil

Oil quantity:

2.5 lit (2.6 US. qt): Total amount
2.0 lit (2.1 US. qt): Periodic oil change

Chain (See page 50 for more detail)
Check the chain tension and general condition before every ride. Lubricate, if necessary.
Check tension. Adjust if necessary.
Throttle grip (See page 52 for more detail)
Turn the throttle grip to see if it operates properly and if the play is normal. Make certain the throttle snaps closed when released.

Battery (See page 55 for more detail)
Check the fluid level and top-up if necessary. Use only distilled water if refilling is necessary.
Lights and signals

Check the headlight, flasher lights, taillight, brake light, meter lights, and all the indicator lights to make sure they are in working condition.

Switches

Check the operation of the headlight switch, the turn switch, brake light switch, horn switch, starter switch, main switch, etc.

Tire pressure (For XS650H)

To insure maximum performance, long service, and operation, note the following:

1. Always maintain proper air pressure as described in the Chart. Check tire pressure daily, before riding, and adjust as necessary.

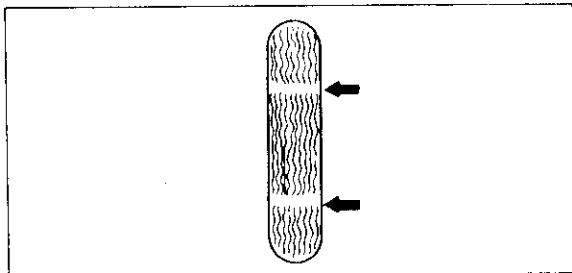
	FRONT	REAR
XS650H BASIC WEIGHT with oil and full fuel tank	100 kg (221 lb)	116 kg (256 lb)
Standard tire	Brigstone or Yokohama 3.50S19-4PR	Bridgestone or Yokohama 130/90-16 67S
Maximum load limit*	166 kg (365 lb)	279 kg (615 lb)
Cold tire pressure: Up to 90 kg (198 lb) load **	1.6 kg/cm ² (22 psi)	2.0 kg/cm ² (28 psi)
90 kg (198 lb) load ~	2.0 kg/cm ²	2.3 kg/cm ²
206 kg (453 lb) load ** (Maximum load)	(28 psi)	(32 psi)
High speed riding	2.0 kg/cm ² (28 psi)	2.3 kg/cm ² (32 psi)
Minimum tire tread depth	0.8 mm (0.03 in)	0.8 mm (0.03 in)

*Total weight of the motorcycle with accessories, etc.

**Total weight of accessories, etc. excepting motorcycle.

- Before operation, always check the tire surfaces for wear and/or damage; for example: cracks, glass, nails, metal fragments, stones, etc. Correct any such

hazard before riding. If a tire tread shows crosswise lines, it means that the tire is worn to its limit. Replace the tire.



WARNING:

It is dangerous to ride with a worn-out tire. When a tire tread begins to show lines, have your Yamaha dealer or other qualified mechanic replace the tire immediately. Brake pad replacement, tire, and related wheel parts replacement should be left to a Yamaha Service Technician or other qualified mechanic.

TUBELESS TIRES AND ALUMINUM WHEELS (For XS650SH)

This motorcycle is equipped with aluminum wheels designed to be compatible with either tube or tubeless tires.

Tubeless tires are installed as standard equipment.

WARNING:

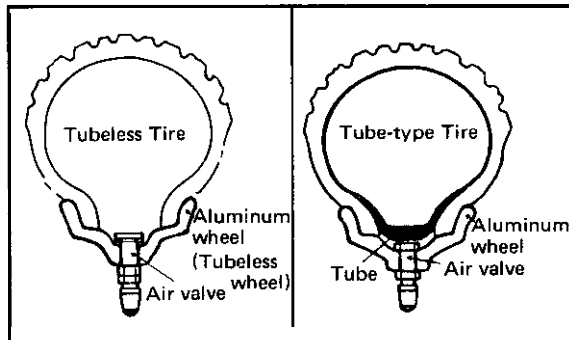
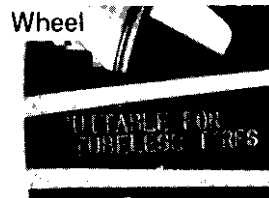
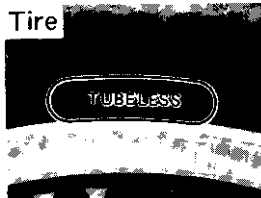
Do not attempt to use tubeless tires on a wheel designed for use only with tube-type tires. Tire failure and personal injury may result from sudden deflation.

Tube-type Wheel → Tube-Type
Tires Only

Tubeless-type Wheel → Tube-Type
or Tubeless Tires

WARNING:

When using tube-type tires, be sure to install the proper tube also.



To insure maximum performance, long service, and safe operation, note the following precautions:

1. Always maintain proper air pressure as described in the Chart on page 26.
2. Check tire pressure daily, before riding, and adjust as necessary.
3. Before operation, always check the tire surfaces for wear and/or damage; for example, cracks, glass, nails, metal fragments, stones etc. Correct any such hazard before riding.
4. Always inspect the aluminum wheels before a ride. Place the motorcycle on the center stand and check for cracks, bends or warpage of the wheels. If any abnormal condition exists in a wheel, consult your Yamaha dealer or other qualified mechanic. Do not attempt even small repairs to the wheel. If a

wheel is deformed or cracked, it must be replaced.

5. Tires and wheels should be balanced whenever either one is changed or replaced. Failure to have a wheel assembly balanced can result in poor performance, adverse handling characteristics, and shortened tire life.
6. After installing a tire, ride conservatively to allow the tire to seat itself on the rim properly. Failure to allow proper seating may cause tire failure resulting in serious injury to the machine and rider.
7. After repairing or replacing a tire, check to be sure the valve stem lock nut is securely fastened. If not, torque it as specified.

Tightening torque: 0.15 m·kg (1.1 ft·lb)

The standard equipment tires originally fitted to the XS650SH are suited to normal riding and touring. They are not suited for sustained high speed running or racing and must not be used for such purposes. Consider your riding skill, road and weather conditions, and correct weight distribution when loading your motorcycle. Securely pack your heaviest items close to the center of the machine.

—WARNING: —

11. This motorcycle is not designed to pull a trailer or to be attached to a sidecar. The accessories you choose for your motorcycle should be designed specifically for it and should be securely mounted in such a fashion as to maintain the inherent stability of the original design as much as possible. Yamaha has a full line of sport and touring

accessories designed specially for this motorcycle. Please consider them before making a purchase. Use of non-approved accessories may cause loss of handling stability and riding safety. Consult your Yamaha dealer or other qualified mechanic regarding the consequences of using such items.

Proper loading of your motorcycle is important for the handling, braking, and other performance and safety characteristics of your motorcycle. **NEVER OVERLOAD YOUR MOTOR CYCLE.** Make sure the total weight of the accessories, and etc., does not exceed the maximum load limits.

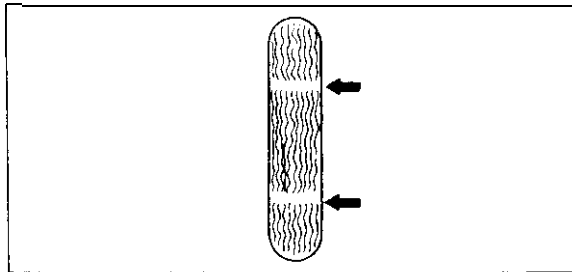
Operation of an overloaded motorcycle could cause this damage, an accident, and injury.

	FRONT	REAR
XS650SH BASIC WEIGHT with oil and full fuel tank	102 kg (225 lb)	118 kg (260 lb)
Standard tire	Bridgestone or Yokohama 3.50S19-4PR Tubeless tire	Bridgestone or Yokohama 130/90-16 67S Tubeless tire
Maximum load limit*	166 kg (365 lb)	279 kg (615 lb)
Cold tire pressure: Up to 90 kg 1198 lb) load **	1.6 kg/cm ² (122 psi)	2.0 kg/cm ² (28 psi)
90 kg (198 lb) load- 205 kg (453 lb) load" (Maximum load)	2.0 kg/cm ² (28 psi)	2.3 kg/cm ² (32 psi)
High speed riding	2.0 kg/cm ² (28 psi)	2.3 kg/cm ² (32 psi)
Minimum tire tread depth	0.8 mm (0.03 in)	0.8 mm (0.03 in)

* Total weight of the motorcycle with accessories, etc.

** Total weight of accessories, etc. excepting motorcycle.

If a tire tread shows crosswise lines, it means that the tire is worn to its limit. Replace the tire



WARNING:

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your own tire, be sure to use proper tools and procedures as described in the Tubeless Tire and Wheel Manual available from your Yamaha dealer.

Fittings/Fasteners

Always check the tightness of chassis fittings and fasteners before a ride. Use the chart on page 41 to find the correct torque,

Fuel

Make sure there is sufficient fuel in the tank.

Recommended gasoline:

Regular gasoline

Fuel tank capacity:

11.5 lit. (3.04 US. gal)

Reserve capacity:

2.3 lit (0.61 US. gal)