

ABS System Troubleshooting

ABS SYSTEM TROUBLESHOOTING		
Problem	Symptom and/or Possible Cause	Possible Repair
ABS light on at all times	Blown Fuse (ABS Fuse Open)	Replace Fuse; Inspect wiring for cause
	System Fault (Fault Code Active)	Connect Digital Wrench - View Code(s)
	Sensor Fault; Loose sensor; Damaged sensor or pulse ring. Improperly assembled fork, brake, wheel, or axle.	Inspect wheel speed sensor / pulse ring for debris or damage. Inspect sensor mounting. Inspect front fork, both brake calipers, wheels and axles for proper assembly, and wheel bearings. Inspect all ABS wiring connections.
ABS light on intermittently	Wire Connection Fault	Inspect connector at ABS module for loose, broken, or corroded wiring or connector pins. Check power supply (fuses) and ground.
	Sensor Fault; Loose sensor; Damaged sensor or pulse ring.	Inspect wheel speed sensor / pulse ring for debris or damage. Inspect sensor mount, ABS wiring connections, and wheel bearings.
ABS Noise When Active	Transmission or Drive Line Noise	Some drive line noise may be evident and is normal depending on conditions / road surfaces. Inspect brake pads, brake discs, caliper mounts, tire pressure, tread wear, and tire type. Pulsation at lever or pedal normal when ABS active.
ABS Pulsation at Lever or Pedal	Normal System Operation	Pulsation at lever or pedal is normal when ABS is active due to feedback in the brake lines from pressure modulation at the ABS module. If pulsation can be felt during normal system braking (non-ABS active braking) inspect the brake system as you would for a non-ABS equipped vehicle (brake pads, brake discs, caliper mounts, tire pressure, tread wear, and tire type, etc.)
ABS Poor Performance	System not properly bled (air in system).	Bleed system properly as described on page 15.18 and perform Front Brake Lever Reserve test on page 15.20 to verify all air is purged from the system. Inspect brake system components (discs, pads, etc.)
ABS Light On After Rear Wheel Spin	Rear wheel loss of traction was initiated below 6 mph (10 kph) and exceeded maximum time allowance parameter of system.	Careless or reckless driving not recommended. Bring motorcycle to a safe stop. Cycle ignition key OFF / ON to reset system. Light should go off when vehicle speed exceeds 6 mph / 10 kph.
	Rear wheel loss of traction initiated above 6 mph (10 kph).	Careless or reckless driving not recommended. System Fault Code logged immediately due to wheel speed differential when ABS is active (above 6 mph / 10 kph). Bring motorcycle to a safe stop. Cycle ignition key OFF / ON to reset system. Light should go off when vehicle speed exceeds 6 mph / 10 kph.

