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Sportster Maintenance and Operation**

Starting Your Sportster:

- Insert the key and turn it to the "on" position.
- Pull in the clutch lever.
- Press the starter button.

Oil Capacity:

 The 2002 Sportster requires 2.5 quarts of oil for the engine and 0.5 quarts for the primary.

Gas Mileage:

• The 2002 Sportster 1200 typically gets about 40-45 mpg.

Checking Primary Fluid:

- Locate the primary fluid sight glass on the derby cover.
- Start the engine and let it run for a few minutes.
- Check the fluid level while the engine is idling.

Starting a Harley with a Dead Battery:

- Jump-start the battery using jumper cables and another vehicle.
- Bump-start the motorcycle by pushing it to a speed of about 5 mph and dropping the clutch in second gear.

Kick Starting an Old Sportster:

- Warm up the engine by turning on the ignition for a few minutes.
- Put the bike in second gear.
- Stand to the side of the bike and press down on the kick lever.

Oil Change Frequency:

• Harley-Davidson recommends changing the oil every 5,000 miles.

Full Tank Range:

 A 2002 Sportster has a 3.3-gallon fuel tank and typically has a range of about 100-150 miles.

Number of Oils:

• There are three types of oil on a Sportster: engine oil, primary oil, and transmission oil.

Best Fuel for Sportster:

 Harley-Davidson recommends using premium gasoline with an octane rating of 91 or higher.

Speed of a 1200 Sportster:

• The top speed of a 2002 Sportster 1200 is around 115 mph.

Mileage for Sportster:

• 40,000 miles is considered high mileage for a Sportster.

Oil Checking Position:

• Check the oil on the kickstand with the engine warm.

Harley Oil Check Temperature:

• Check the Harley oil hot, after riding the motorcycle for at least 30 minutes.

Primary Oil Change:

• The primary oil should be changed every 5,000-10,000 miles.

Bad Harley Battery Symptoms:

- Slow cranking when starting.
- Dim lighting.
- Frequent need for jump-starting.

Boosting a Harley Battery:

- Connect jumper cables to the positive and negative terminals of the battery.
- Connect the other end of the cables to the terminals of another vehicle's battery.
- Start the other vehicle and let it run for a few minutes to charge the dead battery.

Jumping a Harley Davidson:

• Do not directly jump a Harley Davidson battery. Use a jump box instead.

Bump Starting a Sportster:

- Engage second gear and push the motorcycle to a speed of about 5 mph.
- Release the clutch lever while keeping the throttle closed.

Starting a Sportster without a Key:

- Remove the gas cap and insert a screwdriver into the hole.
- Turn the screwdriver to turn the ignition switch.

Jumping a Sportster:

• Connect jumper cables to the positive and negative terminals of the battery.

• Connect the other end of the cables to the battery of another motorcycle.

Starting a Harley Davidson:

- Insert the key and turn it to the "on" position.
- Pull in the clutch lever.
- Press the starter button.

Turning on a Harley:

- Insert the key and turn it to the "on" position.
- Pull in the clutch lever.
- Start the motorcycle by pressing the starter button.

Beginner-Friendliness of Sportsters:

• Sportsters are generally considered a good choice for beginners due to their smaller size and lighter weight.

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