

# IMPORTANT INFORMATION!!!

SERIAL NO.	ASSEMBLED BY	INSPECTED BY	MINIMUM OCTANE RATING
			91

Failure to read and abide by this information will **VOID** Warranty.

### **Clutch Recommendation:**

The high output of all JIMS Race Engines require increased clutch torque capacity. JIMS high performance billet clutch is a tunable high capacity clutch that can handle mild to extreme powertrain upgrades. The Screamin' Eagle No. 37980-10 clutch is another example to upgrade the stock clutch.

### **Oil Cooler Recommendation:**

The JIMS® Race Engine should be fitted with an effective oil cooler. The Harley No.26151-07 is an example of such a cooler. Refer to your Harley-Davidson® accessory catalog for correct oil cooler part number for your particular application.

### **Additional Cooling Recommendations:**

JIMS Forceflow cylinder head cooler is an excellent added safety measure that can decrease your cylinder head temperature by 80-100 degrees. It is thermostatically controlled and looks great, while keeping your motor cool in the hottest conditions. After break in, synthetic motor oil can lower oil temperatures up to 20 degrees compared to standard motor oil.

### **Break In Recommendation:**

**Note:** Follow the engine break-in procedures outlined in the Harley-Davidson® owner's manual per your application.

1. Allow the engine to warm-up before riding. Do not use full throttle. Do not idle the engine for more than two minutes. **Note:** Even less than two minutes, if the air temperature is above 80-degrees fahrenheit.
2. Do not lug the engine at low rpm. **Note:** All engine loads must be moderate. Vary the rpm frequently.
3. Do not hold a steady speed. For the first 50 miles, do not let the engine rpm exceed 2500 and do not exceed 50mph. For the next 500 miles, do not let the engine rpm exceed 3000 and do not exceed 55 mph.

### **Oil Change Intervals With Filter:**

#### **Break in:**

- At 50 miles
- At 500 miles
- At 1000 miles
- Have Fun

#### **Normal oil change intervals:**

- At or before 1500 to 2000 miles, depending upon usage. Change more frequently in cold or dirty/dusty conditions.
- Change oil filter with every oil change.
- Check oil level at normal operating temperature. **Do not overfill.**

#### **Torque checks:**

- Re-check the torque of all accessible engine and chassis fasteners at all oil changes, with the exception of the head bolts.

*Performance Parts For Harley-Davidson Motorcycles*

555 DAWSON DRIVE, CAMARILLO, CA 93012 PHONE 805-482-6913 • FAX 805-482-9224

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## Chassis Oiling System:

- Make sure that the entire oiling system is clean. If you are fitting your new JIMS Race Engine into a chassis that has been used, be sure to completely clean the oil tank together with all lines and fittings leading to and away from the engine. If the old engine has more than 20,000 miles of use, or has suffered any unusual wear, dismantle the oil pan, hoses, oil filter, oil cooler, fittings and thoroughly clean them.
- Do not connect the oil return line from the engine to the oil tank. Instead, fit a hose from the engine's oil return fitting and run the hose into a large catch pan.
- Remove the spark plugs from the engine. Attach the plug wires to the spark plugs and ground them on the cylinder heads to prevent damage to the coil.
- Be sure the oil tank is filled with the proper grade of oil. Use the electric starter to turn the engine over until the oil pressure light goes out or until the pressure gauge reads 10 - 15 psi.
- Re-install the spark plugs and torque to 12 to 18 ft lbs. Re-install plug wires. Depress both compression release plungers (unless equipped with automatic compression release).
- Start the engine using the normal procedure outlined in the owner's manual. Allow the return oil to run into the catch pan.
- Run the JIMS Race Engine between 900 and 1500 rpm until the tops of the cylinders have reached 200 degrees fahrenheit (too hot to touch). This normally takes between one and two minutes. **Note:** Do not allow the oil level in the tank to get too low while the engine is running. Stop the engine and let it cool to ambient temperature. Inspect the installation for any oil or gasoline leaks. Top – off the oil tank.
- Repeat the warm-up and cool-down procedure three additional times. **Note:** Watch and maintain the oil level in the tank. You may reconnect the oil return line to the oil tank after at least two quarts of oil have been pumped into the catch pan. Discard the oil in the pan.



**Before you install your new JIMS Race engine in its chassis, thoroughly wash out the motorcycle's complete oiling system. Be very careful that you do not tear small slivers of rubber off the edges of the oil lines as you fit them to the engine's oil fittings.**

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