

# SERVICE BULLETIN



M-1005

November 13, 1990

## COLD WEATHER MOTORCYCLE OPERATION

### Purpose

This Bulletin will provide you with information to resolve customer starting and driveability difficulties that may occur during cold, damp weather.

### Starting

A reminder that starting a motorcycle equipped with a constant velocity carburetor (CVH) requires a different technique in cold (below 50°F) weather. The "COOL ENGINE" starting instructions from the Owner's Manual have been included in this Bulletin to aid you in answering questions from riders about starting.

### STARTING INSTRUCTIONS FROM OWNER'S MANUAL

#### "COOL ENGINE"

##### Outside Temperature Cooler than 50°F

BE SURE THROTTLE IS CLOSED. Pull enricher knob to full out position. Turn the ignition switch on and press starter switch to operate the electric starter.

1. After initial 15-30 second warm-up, ride for 5 minutes or 3 miles with enricher knob in full out position.
2. After 5 minutes or 3 miles, push the enricher knob in to the 1/2 way position. Ride 2 minutes or 2 miles.
3. After 2 minutes or 2 miles, push the enricher knob fully in."

### NOTES

1. Do not open and close the throttle before or during the starting procedure as this will actuate the accelerator pump, disable the enricher system and make starting more difficult.
2. If the engine will not idle at its preset speed (1000 - 1050 RPM) or operate smoothly after riding for 12 minutes or 8 miles, pull enricher knob out enough to obtain a satisfactory idle and ride for an additional 2 minutes or 2 miles. After 2 minutes or 2 miles, push the enricher knob fully in. If engine still does not idle properly, repeat the preceding procedure given in this note.

### Fuel Additive Usage For Cold, Damp Conditions

Powertrain Engineering has found that adding three (3) ounces (oz.) of Harley-Davidson FUEL ADDITIVE, Part No. 99893-86, to 2-1/2 gallons of gasoline will eliminate erratic idle, lack of power and poor driveability that may occur on damp, cold days. Cold and damp conditions are defined as a **Temperature of 35° to 45° F. with a Relative Humidity of 65% or greater.**

### NOTE

*The 3 oz. of Fuel Additive per 2-1/2 gallons of gasoline is three times the normal amount specified on the Fuel Additive bottle. The increased amount of Fuel Additive is necessary to ensure good engine performance on cold, damp days.*

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO. 1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	TECHNICIAN NO. 4	RETURN THIS TO
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