Certain 1978 and 1979 model FLH, FLH-80, FX, FXE, FXS, XLH and XLCH motorcycles were produced and shipped with deficient front brake master cylinders during the period from June 7, 1978 to June 14, 1978. A complete list of these vehicles is included with this bulletin.

The affected motorcycles were produced with front brake master cylinders in which the plunger piston bore diameter was honed up to .015 inch over the maximum limit. The oversized bore results in a reduced interference fit between the piston seals and the cylinder bore which could allow hydraulic fluid leakage from the hydraulic system, causing eventual fluid depletion and loss of an effective front brake.

During motorcycle operation there would normally be a prior warning of insufficient brake fluid in the system indicated by fluid leakage around the master cylinder and an increase in the hand lever free movement before braking. If this indication were to be ignored, however, complete loss of the brake would eventually occur when the brake fluid supply became depleted. Although the motorcycle operator would still have the use of the rear brake, the unexpected loss of the front brake could, under certain conditions, result in loss of vehicle control and an accident.

In compliance with the National Motor Vehicle Safety Act, this has been declared a safety defect by Harley-Davidson Motor Co., Inc., and the affected motorcycles must be corrected before sale or use by installing the correct front brake master cylinder assembly under part numbers 45013-72 (FLH, FLH-80) and 43306-78 (XLH/XLCH/FX/FXE/FXS). We are sending the required quantity of parts for correcting the affected motorcycles shipped to your dealership — no charge, transportation prepaid. Instructions for installing these parts and a complete list of affected vehicles are included at the end of this bulletin. These motorcycles must not be sold or operated unless corrected.

All registered owners of record are being notified of this safety defect and are being instructed to bring their motorcycles to their dealer for service. A copy of the owner letter is enclosed for your information. Each letter to the registered owner will include Dealer Service Card 037 which must be completed, dated and signed by both the customer and the dealer, to verify that service has been satisfactorily completed.

A list of registered owners and a list of unregistered vehicles involved in this campaign, which have been delivered to your dealership are included with this bulletin. It is your responsibility to perform the required service on all affected vehicles, including those which may not show on the lists. We are enclosing sufficient blank Dealer Service Cards for those vehicles.

**IMPORTANT**

Because only registered owners, as shown on the enclosed list, will receive notification from us, we request that you contact any owners of vehicles listed as unregistered, and arrange to have them come in for service.

The parts that are removed from corrected motorcycles, must be returned to Harley-Davidson Motor Co. with properly completed Dealer Service Card. When servicing a motorcycle, make sure to
fill out the Dealer Service Card completely including code 037, vehicle identification number (VIN), your dealer account number and mark "Replace" box only for each motorcycle serviced. Upon receipt of properly completed Dealer Service Card, with removed parts, your account will be credited .6 hours for each motorcycle serviced to cover your costs for labor, brake fluid and processing.

INSTRUCTIONS FOR REPLACING PARTS

Clean master cylinder brake hose connection to prevent dirt from entering brake system. Loosen, but do not remove front brake hose fitting at master cylinder. Disconnect battery.

Remove the four screws securing master cylinder to handlebar assembly. Separate switch assembly from the master cylinder and disconnect brake switch wires. While holding master cylinder away from motorcycle, disconnect brake hose from master cylinder.

Before mounting new master cylinder on motorcycle, check to see that relief port is uncovered when the brake lever is released. Connect brake light switch wires to switch terminals in new master cylinder housing.

Reusing four screws, mount master cylinder and handlebar switch assembly on handlebar in desired position. Wipe threads of brake hose fitting clean and apply a light coating of Harley-Davidson Pipe Sealant with Teflon. Assemble brake hose to new master cylinder. Reconnect battery.

Turn handlebar so that top of master cylinder is nearly level and fill master cylinder to slightly below gasket surface with D.O.T. 5 type hydraulic brake fluid. Replace cover and gasket with flat side of gasket down.

Bleed system carefully to purge all air according to service manual procedure.

Test ride motorcycle. If brake feels spongy, repeat bleeding procedure. On models equipped with dual front disc brakes, bleed both calipers.

HARLEY-DAVIDSON MOTOR CO., INC.
VEHICLES WITHIN THE 037 SAFETY DEFECT CAMPAIGN RANGE
July 31, 1978

Dear Harley-Davidson Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Harley-Davidson Motor Co., Inc., has determined that a defect which is related to motor vehicle safety exists in the front brake master cylinder located on the right handlebar of certain 1978 and 1979 motorcycles with model designations: FLH, FLH-80, FX, FXE, FXS, XLH and XLCH. These motorcycles were manufactured during the one week period from June 7 to June 14, 1978.

Your motorcycle is one of the above models produced with an improperly machined front brake master cylinder. The inside diameter for the brake piston was made oversize. It is possible that this could allow hydraulic fluid to leak out around the piston seals, causing eventual fluid depletion and loss of an effective front brake. Although you would still have the use of the rear brake, the unexpected loss of the front brake could, under certain conditions, result in loss of vehicle control and an accident.

During motorcycle operation there usually is a prior warning of insufficient brake fluid in the system indicated by fluid leakage around the master cylinder and an increase in the hand lever movement before the brake becomes effective. We advise you not to operate your motorcycle if you notice these conditions because a complete loss of brake will occur when the hydraulic fluid supply is gone.

Please contact your dealer immediately to arrange for him to replace the front brake master cylinder.

The necessary parts to correct your motorcycle are available at your dealer at the present time. Replacement will take approximately 35 minutes and will be done at no cost to you.

To verify that the corrective work has been completed, the enclosed Dealer Service Card must be presented to the dealer when service is performed and signed by you and the dealer and returned to us. If you have sold your motorcycle, please accurately fill out and mail the enclosed Motorcycle Owner Card giving us information on your purchaser which will enable us to contact and advise that person of this recall.

(OVER)
If you take your motorcycle to your dealer on the mutually agreed upon service date, and he does not perform the required service on that date or within a reasonable period of time, please contact our Service Department at the address or telephone number on this letterhead for our assistance.

If service assistance is not provided to your satisfaction after contacting us, you also have the opportunity under law to inform the Secretary of Transportation using the following address: Administrator, National Highway Traffic Safety Administration, U.S. Department of Transportation, Washington, D.C. 20590.

Thank you for your cooperation. We regret that this recall may cause you inconvenience, however, we have taken this action in the interest of your personal safety and satisfaction with our product.

Harley-Davidson Motor Co., Inc.

Enclosure