

# SERVICE BULLETIN

M-858

October 7, 1982



## SERVICE INFORMATION — XL MODELS

### Checking V.O.E.S. Operation — 1983 and Later XL Models

The vacuum operated electric switch (V.O.E.S.) can be checked using an ohmmeter and a Harley-Davidson Vacuum Pump, Part No. HD-23738.

See Figure 1. Remove the air cleaner. Disconnect the switch wire from the computer module connector under the fuel tank and remove the switch vacuum hose from the carburetor.

#### NOTE

*Rear of fuel tank may have to be raised to disconnect switch lead connector from computer module connector.*

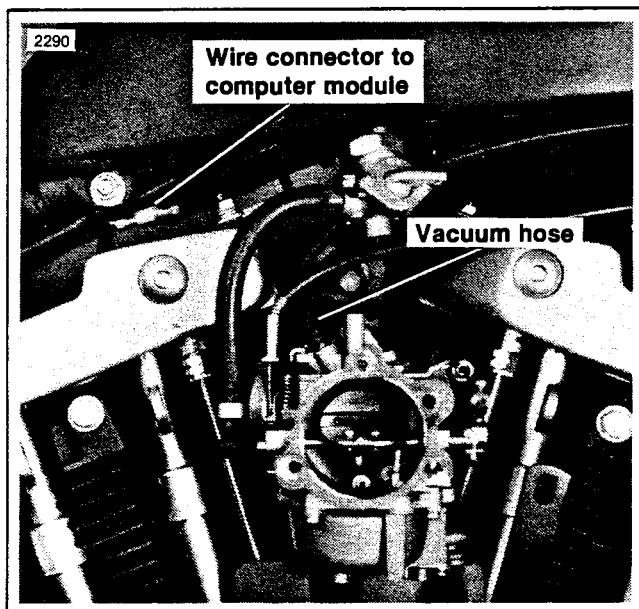


Figure 1. V.O.E.S. Wire Connector and Vacuum Hose

See Figure 2. Attach ohmmeter leads to switch wire and to ground. Attach vacuum pump hose to switch vacuum hose.

Ohmmeter should indicate switch closed with 3.5 to 4.5 in. of mercury vacuum applied. If more or less vacuum is

required to close the switch, replace it using Part No. 26557-83.

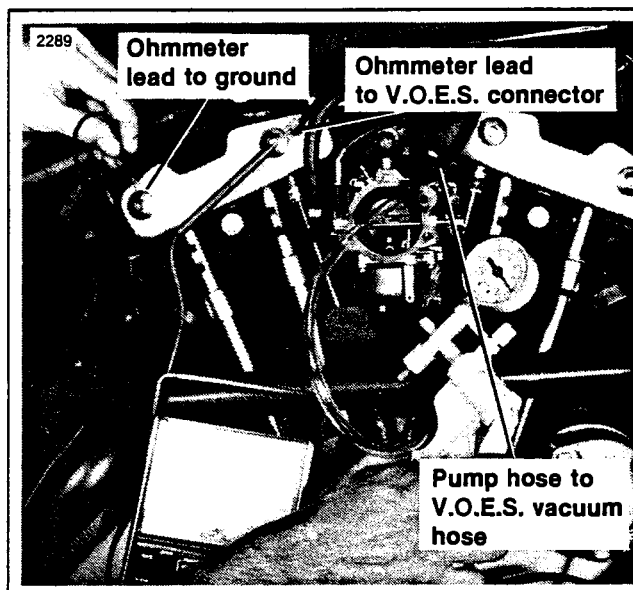


Figure 2. Checking V.O.E.S.

### Transmission Mainshaft Shims — 1979 and Earlier XL Models

Shims for controlling transmission mainshaft end play are available for use on 1979 and earlier XL models.

The shims are available in ten sizes and can be ordered through Parts and Accessories. Refer to the following chart for correct part number and size:

Part Number	Size	Part Number	Size
35343-73	.030 in.	35352-52	.065 in.
35344-73	.040 in.	35353-52	.070 in.
35349-52	.050 in.	35354-52	.075 in.
35350-52	.055 in.	35326-73	.080 in.
35351-52	.060 in.	35355-72	.085 in.

ROUTING:	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	CHIEF MECHANIC	MECHANIC NO. 1	MECHANIC NO. 2	MECHANIC NO. 3	MECHANIC NO. 4	RETURN THIS TO:
INITIAL HERE									