McCULLOCH

SERVICE BULLETIN # 1138

SUBJECT **A POSSIBLE CAUSE OF HIGH SPEED LEANOUT**

MODEL **D30**, D36, 1-40 Series, DATE 8/2/61
1-50 Series, 1-60 Series, S44A, S55A,
1-71, 1-72, 1-81, 1-81HD, 1-82, 1-85

Carburetor Part Numbers: 50687C (HL63D) 55874B (HL103A)
51894B (HL19E) 57182B (HL87C)

Carburetors used or available for service replacement in the above listed models were modified by the addition of a fine mesh screen over the high speed outlet hole. The purpose of the screen was to help prevent the flow of air from the venturi through the high speed outlet hole into the diaphragm chamber during idling. The mesh screen does this and prevents leaning out during idling.

However, if the fuel pump filter has been damaged, reinstalled with the dirty side toward the fuel pump or is breaking down from long use, the mesh screen can load up and cause a high speed leanout.

The engine should never be run without the fuel pump filter being in place. If the filter is damaged or beginning to break down, it should be replaced with a new fuel pump filter. If the filter is cleaned, it should be replaced with its same side toward the fuel pump as it had originally, or dirt which has been caught beneath the surface of the filter and which is almost impossible to see, will be drawn into the fuel pump and sent toward the mesh screen.

The mesh screen can be cleaned or replaced as follows:

1. Remove the fuel pump and fuel diaphragm cover.
2. Pry out the high speed cup plug (see illustration) with a sharp pointed punch.
3. Remove the main and idle mixture adjustment needles.
4. Remove the nozzle ring and screen.
5. Clean the dirt from the screen and blow out the needle passages with low pressure air.
6. Reinstall the screen, ring and new plug, if necessary. Reassemble the carburetor and adjust the mixture needles.

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The screen, ring and plug are again available under the following part numbers:

57651	Nozzle Well Screen
57652	Nozzle Well Ring
57653	Cup Plug

