HALE SERVICE BULLETIN NO. 61

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TO: ALL HALE SERVICE AND REPAIR CENTERS

(from distribution to end users)

FROM: A.J. DEFAZIO, HALE ENGINEERING DEPT.

RE: USE OF NON-STANDARD VPS CONTROL VALVE

BACKGROUND: The Hale VPS power shift cylinder uses air from the vehicle braking system to move the sliding gear in the Hale split-shaft power take-off between “road” and “pump” positions. With a typical air pressure of 100 PSI, the shift cylinder will develop over 700 lbs. of force. For this reason it is important to control the speed of the shift by restricting the flow of air. In installations using the standard Hale VPS control valve the restriction is built into the valve itself. IF THE STANDARD HALE VPS CONTROL VALVE IS NOT USED A SPEED CONTROL FITTING MUST BE INSTALLED.

Install the Speed Control Fitting (Hale Part No. 598-0040-00-0) in the front cover of the Hale VPS cylinder (see drawing below). The fitting has a .047 orifice to regulate the flow of air being exhausted from the cylinder when shifting from “road” to “pump”. This is done to limit the speed of the shift and minimize the possibility of damage to the sliding gear and intermediate gear.

![Diagram of the Hale VPS control valve and fitting setup]

There are 40 Hale 4D6G installations known to be using a Schrader shift valve in place of the Hale VPS control valve. The P/N 598-0040-00-0 Speed Control Fitting was designed specifically for the 3/8” nylon air brake hose used in these installations.

If you have any questions, comments, or require additional assistance, please call.

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