

ACTIVE IPS PM

Your Huey's improved particle separator (IPS) is an inert air induction system. It will do its job just by sitting there on the engine, but only if you're not inert in doing your preventive maintenance.

At the heart of good PM is keeping the IPS and engine clean.

Keep IPS clean



Check the vortex inlet tubes and ejector slots for debris. Clean the slots by blowing debris out through the bleed air inlet fitting with 60 PSI air.

Check vortex inlet tubes for debris



Check for airflow. If the flow is still restricted, clean the tubes and slots using an air/solvent vaporizing gun with 60 PSI air pressure and one quart of cleaner, NSN 6850-00-181-7594.



YOUR BIRD'S
IPS IS INERT, BUT
IT STILL NEEDS
ACTIVE PM.

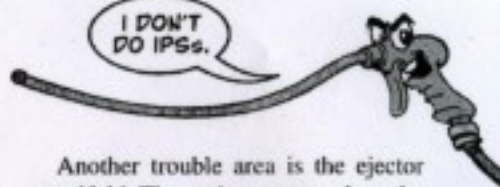
The IPS has an engine wash-block fitting as part of the engine inlet. It lets you flush the engine without removing the upper half of the IPS. Always use the block when washing an engine with IPS.

Connect your wash equipment to the wash-block fitting. Use a maximum of five PSI pressure. Too much force will not allow the wash solution to enter the inlet.



Some units have been removing the top half of the IPS and using a wash wand. Don't do it. You won't get the wash solution where it belongs and you will get it where it doesn't.

I DON'T
DO IPSs.



Another trouble area is the ejector manifold. The easiest way to clean the ejector manifold is to disconnect the P3 hose from the engine fitting. Fill the hose with cleaning solvent and then reconnect it. Use antiseize compound on the P3 hose fitting.

Motor the engine. The solvent and air will purge the manifold of debris.

Check to see if the IPS drain tube is missing or blocked. When water enters the IPS without the drain tube installed or with the drain tube blocked, it drips into the hell hole and creates corrosion. Make a replacement drain tube from the instructions in Appendix D of TM 55-1520-210-23-3.

If your drain tube is installed and not blocked, disconnect it, clean and inspect the flapper valve and reinstall it.

The best PM solution to most cleaning problems is to keep the IPS covered.

One final word when cleaning in and around the IPS: watch your feet. A misplaced foot will damage a tube.