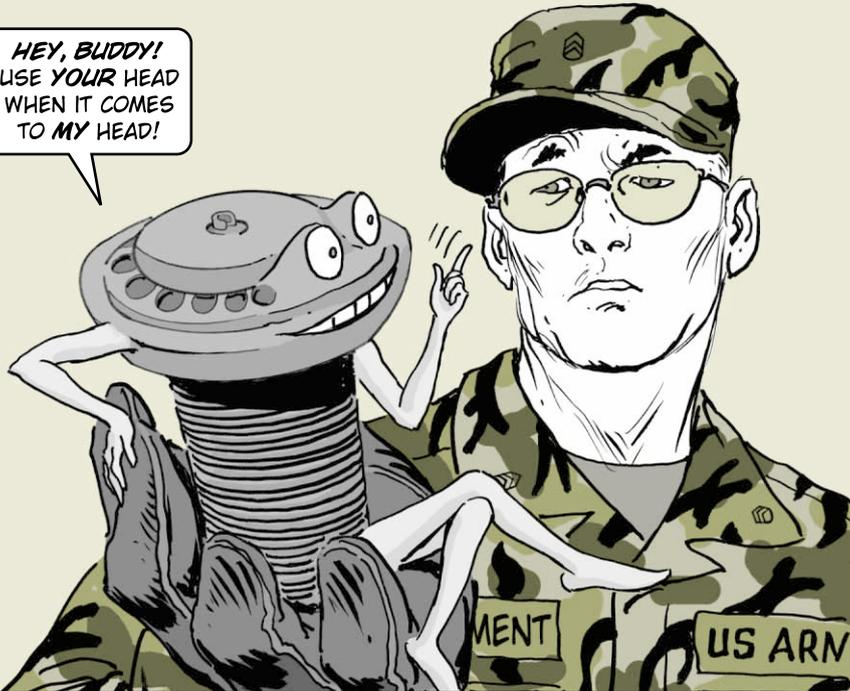


# USE YOUR HEAD

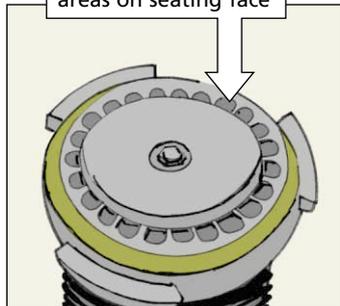
HEY, BUDDY!  
USE YOUR HEAD  
WHEN IT COMES  
TO MY HEAD!



**U**se your head when it comes to the engine head on M157-series smoke generators. If you use the same head over and over again and never clean it, the head gets caked with carbon and eventually warps. Then the head seals poorly and you have trouble starting your M157 and keeping it running.

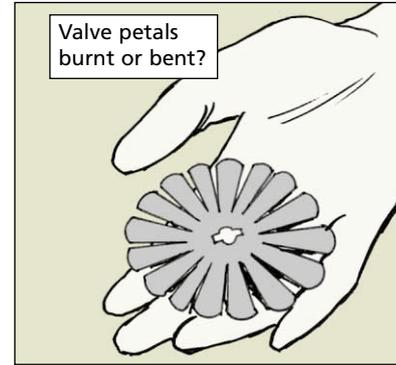
Step 4 of the PMCS in TM 3-1040-279-12&P says to check the head weekly. Do it! Look for signs of wear, especially for rounded areas on the seating face. That means the head won't seal well and it needs to be replaced.

Check for rounded areas on seating face

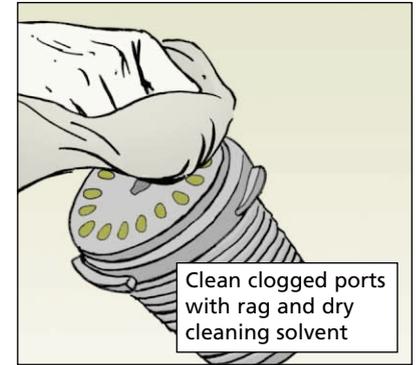


If the valve petals are bent or burnt, replace the valve. If the ports are clogged, dip a rag in dry cleaning solvent and clean them out.

Valve petals burnt or bent?

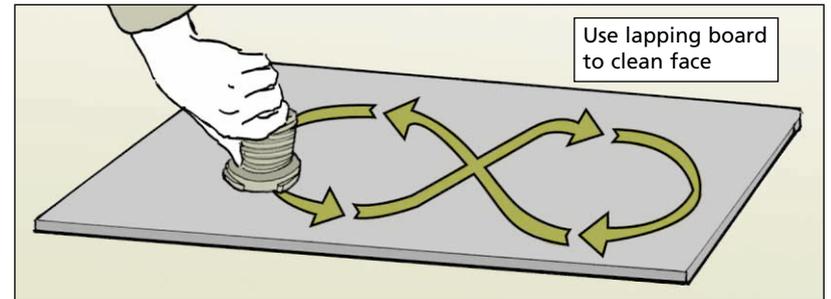


Clean clogged ports with rag and dry cleaning solvent



If the head's face is caked with carbon, put a few drops of fog oil on the lapping board and rub the face flat on the board in figure eights until the carbon is removed.

Use lapping board to clean face



Take extra valves to the field—you'll probably need them. Keep the extra valves in something like an old shoe polish can to prevent them from getting banged up.

Use can to protect valves



ALSO TAKE AN **EXTRA** HEAD TO THE FIELD. YOU'LL NEED IT IF YOU DO MUCH SMOKING.

