



Werner's Wings
Stock # 48-01

AH-1F Improved Particle Separator (IPS) and Debris Deflector Set

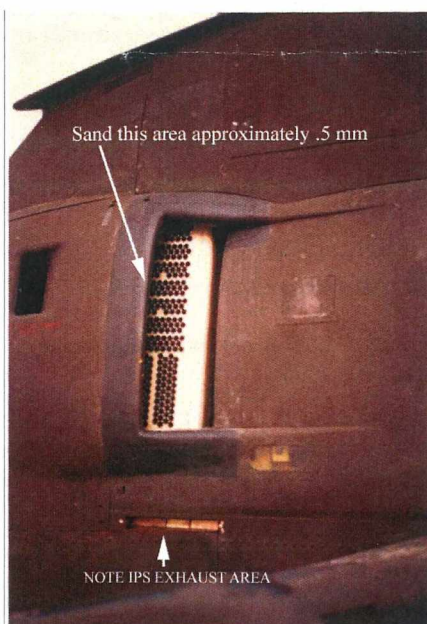
For Monogram/Revell kit (may be modified for Testor's/Fujimi kit)

General Notes:

- Your Werner's Wings IPS and Debris Deflector Set provides the parts necessary to model the final variant of the US Army's venerable AH-1 Cobra. We provide a completely new air inlet which is the IPS. The IPS consisted of tiny swirl tubes that filtered out sand and other debris that was hazardous to the internal engine components, especially the compressor blades. In addition to the IPS, we provide you with the Debris Deflector cowlings that provided uninterrupted airflow for the engine during Mk. 66 rocket engagements.
- As always, read and understand the instructions BEFORE you start to cut plastic!
- CERTAIN PARTS ARE DELICATE! Please be careful with the slender parts.
- Dry fit all parts first. Measure twice and cut once!
- Above all remember: Modeling is fun!

Construction Notes:

The addition of the IPS is easy to do. Remove the molded on inlet screen on part #3 and 50 in step 1 of the assembly sequence. **ONLY REMOVE THE PLASTIC INSIDE THE OPENING NOT THE RECTANGULAR ENCLOSURE.**



Sand the inside of the opening flat. If you can save the driveshaft inside the opening, great. If not, this can be replicated with round styrene rod after drilling a hole in the IPS inner face.

The new resin IPS will fit inside of the rectangular opening. They should touch in the middle and fill the rectangular opening. Sand as necessary. The side with the angle should be against the back wall of the enclosure. See the accompanied photo.

To be totally accurate you should file and sand the fuselage inlet back about .5 mm. See the photos of the real thing. The inlet is slightly larger with the IPS installed.

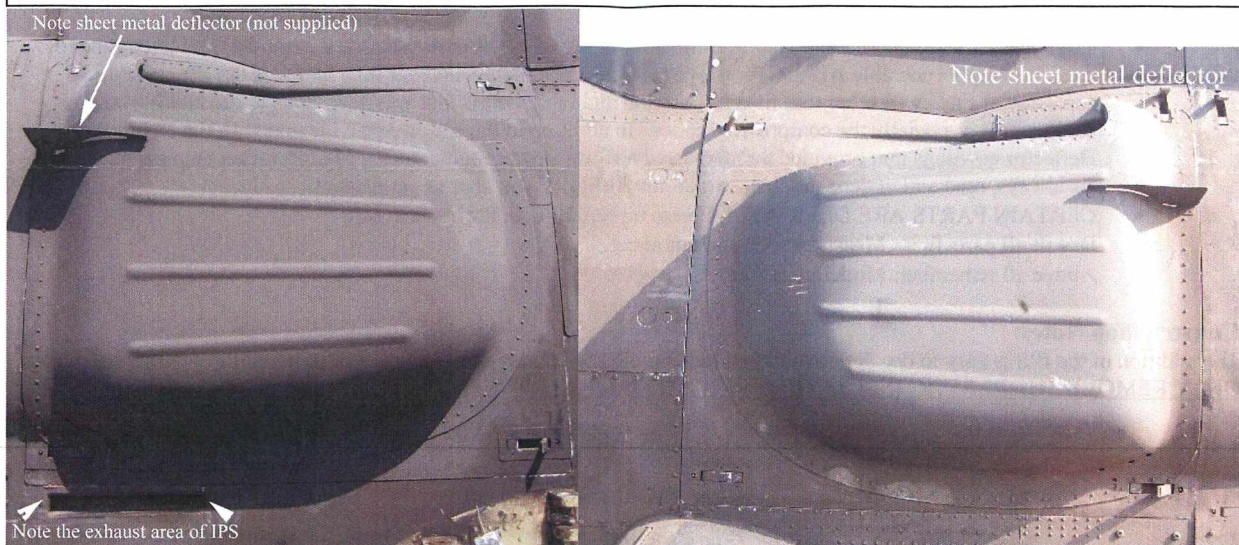
Note the addition of the IPS exhaust area on the right side only below the IPS. This can be replicated by scribing the new area. It is actually recessed on the real thing, but in scale you will not be able to tell the difference.

For the Debris Deflectors, they are scabbed on the outside of the fuselage just like the real thing. See the accompanying photos for proper placement.

A hint on getting a good fit at the bottom-Lay some sanding film on the lower edge of the kit intake and sand the resin deflector until it has a slight undercut. Once you are happy with the fit just glue in position.

The thin portion around the outside of the inlet is easily replicated by attaching the deflector, filling as necessary, then outline the area that needs to be built up with tape. A coat of Mr. Surfacer or even thick paint will provide the raised portion. Sorry but this is a limitation in the molding process that I couldn't overcome.

Note the sheet metal air deflector mounted on the aft portion of the debris deflector on both sides. This will have to be scratch built from either styrene or brass. Again the limitations of the molding process.



References

AH-1 Cobra Walk Around No. 29- Wayne Mutza, Squadron/Signal Publications, 2002, ISBN 0-89747-438-4

Thanks for purchasing this Werner's Wing product. We would love to hear your feedback on this set and your thoughts and suggestions for future releases. Contact us at fwernerjr@comcast.net. Remember: Modeling is fun!

Also while building this set remember those that serve. Freedom isn't free. Garryowen!