

# ASB Avionics LLC

## BOEING 707/KC-135 HF NOTCH ANTENNA

ASB Avionics is pleased to announce the availability of a 2-29.999 MHz Integral Dorsal HF Notch Antenna retrofit for the Boeing 707/KC-135 family of aircraft. The Integral Dorsal HF Notch Antenna replaces the existing Dorsal Fin with a composite Dorsal Fin with the HF Antenna mounted internally. Our HF Dorsal Fin Notch Antenna program will take your existing HF system into the 21st century by improving HF receive and transmit and by meeting the requirements for HF Datalink.

The installation of the HF Antenna and improved location of the antenna tuning and feed components results in a dramatic improvement of the radiation pattern achieved. The upgrade program includes the removal of the existing long wire antennas (or the option of removing the probes), the installation of a notch antenna located in the dorsal fin, and the installation of new HF antenna couplers inside the pressure vessel below the dorsal fin. The Dorsal Fin Notch Antenna program is a retrofit program that has been designed to be installed without additional down time during a routine aircraft 'B' maintenance check. The design of the HF dorsal fin notch antenna reduces the impact of lightning strikes on the aircraft.

ASB Avionics is integrating the antenna into the existing dorsal fin of the aircraft in a way that maintains the structural integrity of the fuselage. Design of the kit is focused on rapid installation and allows it to be accomplished in about 175 man-hours. ASB provides technical support for its installations at approved facilities worldwide. The FAA STC and Patent have been applied for and are pending.



### SPECIFICATIONS:

<b>Applicability</b>	Boeing 707/KC-135 aircraft	<b>Power Capability</b>	Up to 500 Watts RF
<b>Location</b>	Dorsal Fin	<b>Frequency Coverage</b>	2.000 MHz to 29.999 MHz
<b>Dimensions</b>	26" Wide X 45" High X 71" Long	<b>Antenna resistance</b>	< 8 milliohms coupler feed to rack
<b>Material</b>	Fiberglass and Aluminum	<b>Parts Finish</b>	Alodine with gray primer
<b>Weight Change</b>	Approximately Plus 7 lbs. (Antenna only)	<b>Exterior Finish</b>	Polyurethane Gray primed finish which may be top coated to suit desired paint scheme
<b>Input</b>	Collins HFS 700, 900, 9000, 9500 ARC-190, 618T & 628T Transceivers Antenna couplers CU-2314/ 490S-4,490S-1, HF9545 and CPL920/920D		

*ASB Avionics LLC*

**Duane McNutt**  
*President*

1032 Sabovich Street  
Mojave, CA 93501

Phone (661) 824-1005 Fax (661) 824-1006  
Email [duane.mcnutt@asbavionics.com](mailto:duane.mcnutt@asbavionics.com)

Visit us on the Web at [www.asbavionics.com](http://www.asbavionics.com)