

# ASB Avionics LLC

## BOEING 747 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 747 family of aircraft. The Integral Antenna Installation deactivates the existing left and right wing probe Antennas and installs a composite Dorsal Fin Notch Antenna with the HF Antenna element mounted internally. Our HF Notch Antenna program will take your existing HF system into the 21st century by improving HF receive and transmit to help meet 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 installation of a notch antenna located in the dorsal fin, and the installation of new HF antenna couplers inside the pressure vessel, below the new antenna. Both wing tip couplers are removed as part of the installation. The Dorsal Fin Notch Antenna program is a retrofit program that has been designed to be installed without additional down time during routine aircraft maintenance. 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 747 Classic 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>Material</b>	Aluminum, Fiberglass & Silver Plated Copper	<b>Antenna resistance</b>	< 8 milliohms coupler feed to rack
<b>Weight Change</b>	Approximately Plus 23 lbs. (Antenna only)	<b>Parts Finish</b>	Alodine with gray primer
<b>Exterior Finish</b>	Polyurethane Gray primed finish which may be top coated to suit desired paint scheme		
<b>Input</b>	Transceivers: Collins HFS 700, 900, HF9000D, HF9500, 618T & 628T Transceivers Antenna couplers: 490S-1, CPL920/920D, HF9041, and HF9545		

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