

ASB Avionics LLC

LOCKHEED P-3 HF DORSAL SHUNT ANTENNA

ASB Avionics is pleased to announce the availability of a 2-29.999 MHz Dorsal HF Notch Antenna retrofit for the Lockheed P-3 Series aircraft. The Dorsal Antenna Installation deletes the existing left and right Long-Wire Antennas and installs a composite Dorsal Fin Shunt Antenna with the HF Antenna element embedded internally in the leading edge radome. Our HF Shunt 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 shunt antenna located in the dorsal fin, and the installation of new HF antenna couplers inside the pressure vessel, below the new antenna. Both long-wire antennas are removed as part of the installation. The Dorsal HF Shunt Antenna program is a retrofit program that has been designed to be installed with minimal down time during routine aircraft maintenance. The design of the HF dorsal fin shunt antenna reduces the impact of lightning strikes on the aircraft and reduces aerodynamic drag, thereby improving fuel specifics.

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 250 man-hours. ASB provides technical support for its installations at approved facilities worldwide.

Shunt Antenna is flying successfully with NOAA since 1st Quarter 2013



NOAA operators indicate crystal clear communications, even in harsh hurricane environments. Far better HF operation than old long wire antenna's.

SPECIFICATIONS:

Applicability	Lockheed P-3 () Aircraft	Power Capability	Up to 500 Watts RF
Location	Dorsal Fin	Frequency Coverage	2.000 MHz to 29.999 MHz
Material	Aluminum, Fiberglass & Silver Plated Copper	Antenna Resistance	< 8 milliohms coupler feed to rack
Weight Change	Approximately Plus 16 lbs. (Antenna only)	Parts Finish	Alodine with gray primer
Exterior Finish	Polyurethane Gray primed finish which may be top coated to suit desired paint scheme		
Input	Transceivers: Collins HFS-700, -900, HF-9000D, HF-9500, 618T, & 628T RT-1341/ARC-190 Transceivers Antenna couplers: 490S-1, CPL-920/-920D, HF-9041, HF-9545, & 490S-4 (for ARC-190)		

ASB Avionics LLC

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