



BR-1305-02

MODIFICATION DESCRIPTION

Piper Navajo Single or Dual Camera Ports

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INTRODUCTION

BACKGROUND

Aerial mapping and surveying is a growing market, and the Piper PA-31 series has been proven to fit the needs of the business. Infinion has developed a camera port solution for these aircraft, with modular options to fit the individual needs of many satisfied customers.

Infinion has designed a Camera Port Modification which includes single or dual camera ports in PA-31 Series aircraft. The installation is approved under Transport Canada STC SA06-59. The approval is familiarized in the USA under FAA STC SA02303NY and in Europe under EASA STC 10046122.

ELIGIBLE AIRCRAFT

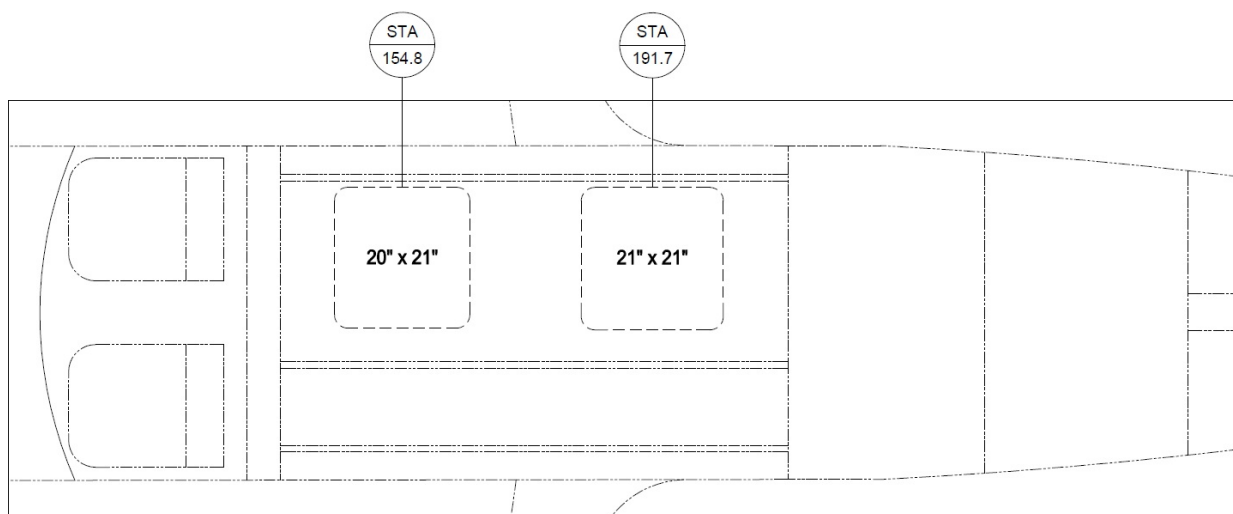
The existing STC includes the following models:

PA-31 (310) PA-31-300 PA-31-325 PA-31-350

DESCRIPTION OVERVIEW

The approval is for the camera port. Installation of sensors and other equipment is evaluated separately. A variety of structural provisions options for cameras, LIDAR, and other sensors are available. The features of this conversion are as follows:

- Aft camera port 21" x 21".
- Forward camera port 20" x 21".
- Removable floor beam to restore seating options.
- Power provisions options.



Camera Port Layout Overview

STANDARD KIT DETAILS

The camera port kit is sold by Infinion. A number of different kit options are available, described below.

AUTHORIZATION

Authorization to install the camera ports is granted on a per-aircraft basis. Either the single or dual port option can be purchased. Follow-on orders by the same customer will be given a repeat customer discount.

DOCUMENTATION

A full documentation package is provided, including Installation Instructions and drawings, a Flight Manual Supplement, Maintenance Manual Supplement and Instructions for Continued Airworthiness, as applicable. All kits are supplied with FormOne certification by a Transport Canada approved manufacturing facility.



DESIGN AND ENGINEERING SERVICES

During the course of installation changes or corrections to the installation and associated data may be required. Engineering support to address routine issues associated with the installation, including drawing change notices, drawing updates, and certification of any required changes, is included with the authorization. Customer requested design changes, or changes required due to previous modifications are not included.

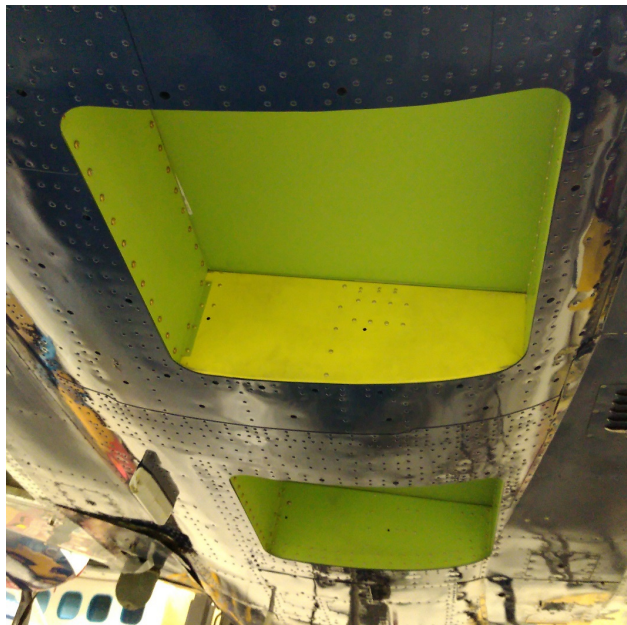


Kit P1 - PK-1141-01 - Aft Port Sheet Metal Parts

Kit P1 comprises the basic sheet metal parts, including brackets, doublers, frames, etc. for the aft port.

Kit H1 - HK-1141-01 - Aft Port Hardware Kit

The hardware kit includes standard hardware for installation of the aft port, including pulleys, bolts, nuts, rivets, camloc fasteners, etc.



Kit P201 - PK-1141-201 - Forward Port Sheet Metal

Kit P201 comprises the basic sheet metal parts, including brackets, doublers, frames, etc. for the forward port.

Kit H201 - HK-1141-201 - Forward Port Hardware Kit

The hardware kit includes standard hardware for installation of the aft port, including pulleys, bolts, nuts, rivets, camloc fasteners, etc.

Kit H5 - Trim Cables

We can provide the Rudder and Elevator Trim Cable kit, but it is recommended that you have the cables built locally by an authorized cable shop in order to minimize delays near the end of the installation. There are no other cables required.

OPTIONAL KITS

These kits are not necessary to install, and whether they are installed will depend on your final configuration and needs. All kits are separate and independent, and can be installed in any combination.

Kit P13 - PK-1141-13 - Floor Beam Kit - Aft

Kit P213 - PK-1141-213 - Floor Beam Kit - Fwd

A floor beam insert can be installed to return the aircraft to passenger configuration. The insert restores the floor beam over the hole when survey equipment is not mounted in the aircraft. The floor beam kit is available for either the forward or aft port.

WIRING PROVISION

If the aircraft is not previously equipped with survey power provisions, then one of the following two options is recommended. Note that upgraded alternators may be required if your equipment demands a significant amount of power.

Kit P31 - PK-1141-31 - Power Provisions Wiring Kit

Kit P31 is a standard 50 amp plug off of the existing buss.

Kit P41 - PK-1141-41 - Power Provisions Wiring Kit - Non-essential Buss Kit

Kit H41 - HK-1141-41 - Non-essential Buss Hardware

Kit P41/H41 is a more advanced system and includes a non-essential buss and up to 90 amps of power in 2 plugs.



Kit 1180 - Rear Cabin Baggage Net

A baggage net in the rear cabin area may be installed that spans the fuselage (Similar to Beech King Air nets). The net can be installed at the step or 8" aft of the step to accommodate the step mounted seat position. The kit includes hardware and parts to install the net.

INSTALLATION SERVICES

Infinion does not provide installation services. We can provide liaison services with one of our preferred install shops.

ADDITIONAL CUSTOMER OPTIONS

Additional customer requested options will be considered on a case by case basis and quoted on request. Incorporation of options will be subject to availability of personnel to design and certify the option, and to the suitability of the modification for certification.

Camera Provisions

A number of interface options have been designed to work with the Infinion camera port installation. Existing or custom interfaces can be ordered. Contact Infinion engineering to discuss specific details.



CONTACT

For additional information, contact Infinion:

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