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Tecnam p92 maintenance manual

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Fabric or skin deterioration 3. Distortion 4.



Evidence of failure 5. Insecurity of attachment 3.12.7 Empennage assembly Inspect all components and systems for: 1. General condition 2. Fabric or skin deterioration 3. Distortion 4. Evidence of failure 5. Page 25 P92 Echo Super Maintenance Manual SUMMARY OF REFERENCE VALUES Torque settings for connection bolts are a function of their thread (shank) diameter Bolt resistance category: 8.8 = 3.1 Nmm – 27 lbIn/Lb & 4 = 10.4 Nmm – 92 lbIn/Lb &...

Page 26 P92 Echo Super Maintenance Manual 3.1.4 LIMITATIONS TO AIRWORTHINESS COMPONENTS TYPE SERVICE LIFE Electric trim actuator T2-10A 1000 hr or 10 yrs Shock absorber rubber discs 92-8-2001-1 (QTY 7) 1200 hr or 10 yrs Oil system flexible hose assy TECNACN part n's: 21-11-91-001/... Page 27 P92 Echo Super Maintenance Manual SECTION 4 AIRFRAME 4 Introduction The airframe consists of the following main components as shown in figure 4-1: 1) Wings 2) Fuselage 3) Empennage 4) Landing gear 5) Powerplant Figure 4-1 Main groups of aircraft 4.1 Wing Each wing is connected to the fuselage by means of two pin attachments and a single strut brace per side. Page 28 P92 Echo Super Maintenance Manual Wing-to-strut attachment fittings are located approximately in the middle of main spars (8). Aileron uses "biano-braces" type MS 20001-4 for direct attachment of aileron spar to wing spar. Flap hinges are external to wing torsion box and feature SKF GE10E type ball bearings. Page 29 P92 Echo Super Maintenance Manual 4.2 Flap control Flap control system is push-pull type. The torque tube (1), connects the two moving spars between and hinges on two braces (2) rigidly attached to fuselage structure. Bolt, nut and cotter pin secure link. Rotation is transmitted through a push-rod (3) whose position is adjusted via an electric linear actuator (4) governed by a switch on instrument panel. Page 30 P92 Echo Super Maintenance Manual 4.3 Aileron control Aileron control system uses push-pull rods and bellcranks inside wing and steel cables and pulleys inside fuselage. Layout of flight control system inside cabin includes three pairs of pulleys which transmit movement from the two control sticks (1), linked in parallel by a rod (2), to a small bar (3) located in cabin overhead in correspondence with main pushrod s issuing from half-wings. Page 31 P92 Echo Super Maintenance Manual 4.4 Horizontal Tail The horizontal tail is an all-moving type, that is, the stabilizer and elevator form a single, uniform plane called stabilator that rotates about an axis normal to fuselage at the desired pitch setting. Page 32 P92 Echo Super Maintenance Manual Figure 4-6 Stabilator control If unusual tolerance is found along transmission, replace parts displaying excessive wear. The aft bellcrank assembly (see fig. 4-7) consists of a steel tube (1) with welded horn assembly (2), attachment for stabilator control shaft (3) and balanced weight bellcrank (4). Page 33 P92 Echo Super Maintenance Manual Figure 4-7 Stabilator control 4.4.1 Stabilator balance If it becomes necessary to verify stabilator balance (repairs etc.) proceed as follows: Remove the tail fairing and open the inspection hatch located on the bottom of the tailcone (the one closest to tail-end).... Page 34 P92 Echo Super Maintenance Manual The rudder consists of an aluminum alloy torque tube (3), formed sheet metal ribs (4) and sheet-metal panel covers (5) held in place by rivets. The rudder rotates about its torque tube via two, specially designed hinges (parts 6 and 7). The top hinge pin rotates about a bushing embedded in the topmost ordinate of the vertical stabilizer. Page 35 P92 Echo Super Maintenance Manual 4.5 Cabin structure The cabin structure is a semi-monocoque structure for the cabin's bottom section. Page 37 P92 Echo Super Maintenance Manual Figure 4-11 Tailcone Cabin access is through two doors constructed of light alloy square tubing. A synthetic mat e rial door panel, shaped for better comfort, is riveted to doorframes. Both doors feature spring loaded door handles with inside safety latch. Page 38 P92 Echo Super Maintenance Manual 4.7 Landing Gear The main landing gear (see fig. 4-12) consists of two special steel spring-leaf struts (1) positioned crossways to fuselage for elastic cushioning of landing loads. The two steel spring-leaf struts are attached to the fuselage underside via the main girder. Page 39 P92 Echo Super Maintenance Manual Figure 4-13 Brake circuit To remove the leaf-spring struts proceed as follows: Remove cabin seats by sliding them forward Hoist aircraft onto supports Disconnect brake fluid line unscrewing the upper link of the external line tract near fuselage bottom. Place temporary caps on lines to prevent spillage Loosen bolts (part 5 fig. Page 40 P92 Echo Super Maintenance Manual 4.7.1 Main Gear Removal of main gear wheel (see fig. 4-16a and 17) Removal of a single wheel is carried out as follows: Hoist aircraft onto supports Release parking brake Remove fairing (1) by releasing bolt (2) and the three Phillips screws (3) that hold fairing to plate.... Page 41 TECNACN (←) P92 Echo Super Maintenance Manual Figure 4-15 Removal of main gear wheel Rev1 sion Date: 10-29-2007 Revision Number: 3.01... Page 42 P92 Echo Super Maintenance Manual Main Gear 4.7.2 Removal of cup-bearing from main gear wheel Figure 4-16 Marc Ingegnvo Wheel Assembly Removal of cup-bearing from main gear wheel (see fig.4-17) Removal of a wheel bearing becomes necessary when excessive friction occurs during wheel motion. Procedure is as follows: Using an appropriate tool, remove "Seeger" ... Page 43 P92 Echo Super Maintenance Manual 4.8 Nosegear The nose gear (fig. 4-18) is attached to the engine mount with two hinges (1) and is equipped with a Sava 4.00-6 type tire. Steering motion is transmitted from the pedals through two steering tubes that are attached to the nose gear strut by means of two brackets (2) welded to the strut. Page 44 P92 Echo Super Maintenance Manual 4.10 To remove nose wheel proceed as follows: Remove the fairings (5) (6) and (9) Loosen bolts (10), (11) and (13) Detach the two wheel forks (12) from each other Remove wheel axle Remove the wheel (13) Figure 4-19 Removal of nosegear fairing 1.1 Tire inflation pressure... Page 45 P92 Echo Super Maintenance Manual CHECKLIST TO CARRY OUT AFTER INSTALLATION N° HECK Pitot tube attachment Lower bolt right side strut (24.6 Nm) Right side half-wing mounting Front right side strut (24.6 Nm) Right side half-wing mounting Front left side strut (24.6 Nm) Left side half-wing mounting Front left side strut (24.6 Nm) Left side half-wing mounting

Page 46 P92 Echo Super Maintenance Manual 5.1 Engine Main Features The installed engine is a BOMBARDIER-ROTAUX type 912 SD horizontally-opposed four-cylinder, one central camshaft with pushrods and OHV. Other features include liquid cooled cylinder heads and ram air-cooled cylinders. Prop drive is via reduction gear with integrated shock absorber and overload protection. Page 48 P92 Echo Super Maintenance Manual 5.2 General Servicing Procedures 5.2.1 Idle speed synchronization With the exception of idle speed synchronization, no other carburetor adjustments are required. Fuel mixture is co ntrolled and set by the manufacturer and requires no further adjustment. Page 49 P92 Echo Super Maintenance Manual Figure 5.3 Propeller installation 5.2.6 Periodic inspection Refer to specific subsection in Periodic inspection Schedule of Section 3 For further information refer to the "Owner's Manual" and to all the pertinent documents issued by GT. P92 Echo Super Maintenance Manual SECTION 6 SYSTEMS 6 Systems 6.1 Fuel System The system is equipped with two aluminum fuel tanks (1) integrated within the wing leading edge and accessible for inspection through dedicated covers (6). Capacity of individual tank is 35 liters (9.24 gal) (45 liters (11.8 gal) optional) and total usable fuel is 66.8 liters (17.64 gal) (86.8 liters (22.9 gal) total). Page 51 P92 Echo Super Maintenance Manual Figure 6-1 Fuel System Figure 6-2 Gasolator Revision Date: 10-29-2007 Revision Number: 3.01... Page 52 P92 Echo Super Maintenance Manual 6.2 Instrumentation Figure 6-5 Instrument panel (typical) The aluminum instrument panel (see Fig. 6-5) is sub-divided in three distinct areas: The left area holds flight instruments The right area holds engine gauges The central area can hold Nav/Com instruments (if installed) Page 53 P92 Echo Super Maintenance Manual 6.2.1 Engine instrumentation Electric tachometer Hour meter Electric oil temperature indicator The sensor is located on the oil pump tube and is marked with "TO" on the pump flange. Oil pressure gauge Sensor is located on oil tube.... Page 54 P92 Echo Super Maintenance Manual 6.3 Pitot and Static System Referring to figure 6-6, system consists of a pitot tube (1) mounted on left wing strut and two static ports (2) connected in parallel (3) and located on left and right side of fuselage just ahead of door frames. The pitot tube is a sliding type and its pressure is regulated by a valve (4) which is released by a push button (5) located on the instrument panel. Page 55 P92 Echo Super Maintenance Manual 6.4 Carburetor The carburetor has two fuel lines (1) and two air lines (2) which join the carburetor to the intake manifold. Page 56 P92 Echo Super Maintenance Manual 6.5 Brakes The brake system consists of a parking brake resistor (4), a master cylinder (3) and two disc brake assemblies, and an interlocked valve activates parking brake (3). Braking action is through a lever (1) located on cabin tunnel between seats. Hydraulic circuit intercept valve is also located between seats and, when closed with lever pulled under pressure and aircraft's parking brake on, Page 58 P92 Echo Super Maintenance Manual Top fuel level to 3/4 and close cap to drain the brake system: D. Pull brake lever (5) to pressurize circuit E. Loosen small escape valve (7) allowing fluid spurts F. Close small valve and release brake lever Repeat operations D, E and F until fluid comes out clean and no longer in spurts proving absence of air bubbles. Page 59 P92 Echo Super Maintenance Manual SECTION 7 ELECTRICAL SYSTEM 7 Electrical system Electrical energy is supplied by a 12-volt direct-current system. Energy is supplied by an engine-driven generator and by a buffer battery. The 18 Ah capacity battery, is located in a distinct compartment on the right side of the tail cone.



The compartment is suitably drained and vented, and access is through a small hatch secured by a screw.

TECNAM

FLIGHT MANUAL

P92 Classic Jabiru
INTRODUCTION

FLIGHT MANUAL

P92 ECHO CLASSIC JABIRU



MANUFACTURER : COSTRUZIONI AERONAUTICHE **TECNAM** s.r.l.

AIRCRAFT TYPE : **P92 ECHO CLASSIC JABIRU**

SERIAL NUMBER :

MANUFACTURING DATE :

The Flight Manual must always be kept on board the aircraft. The aircraft described herein is to be operated in accordance with procedures and limitations described in this Flight Manual.

1st edition, 5th July 2011

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Page 60 P92 Echo Super Maintenance Manual Figure 7-1 WIRING D IAGRAM YPICAL Revision Date: 10-29-2007 Revision Number: 3.01... Page 61 P92 Echo Super Maintenance Manual SECTION 8 MARKING & PLACARDS 8 Markings and Placards 8.1.1 Magnetic compass compensation table To compensate the deviation errors of the magnetic compass, the following correction table is located just below the compass: Steer Steer... Page 62 P92 Echo Super Maintenance Manual 8.1.4 Engine throttle friction A throttle friction lock is located on the instrument panel to keep the desired throttle setting. The following placard (23x11 upper; 21x11 lower) is positioned near the friction lock knob. 8.1.5 Cabin heat The cabin heat control knob is located on the instrument panel central area just below the left throttle control. Page 63 P92 Echo Super Maintenance Manual 8.1.8 Fuses Fuses are located on the lower/right side of the instrument panel and each fuse is individually marked as follows (from left to right): Depending on the specific equipment installed on the a/c the type and position of the fuses could vary from the above shown. Page 64 P92 Echo Super Maintenance Manual 8.1.12 Generator light A generator warning light is located on the upper/right side of the instrument panel and it is marked with the following label (19x6mm). 8.1.13 Usable fuel Located next to the two fuel level gauges are the two placards indicating the usable fuel for each tank (18x13mm):... Page 65 P92 Echo Super Maintenance Manual 8.1.15 Fuel tanks Next to the fuel tank filler caps is located a placard (57x120mm) indicating the type of fuel and the total tank's capacity. Note For extended fuel tanks the capacity is 45 liters or 11.9 gallons 8.1.16 Oil tank reservoir... Page 66 8.1.20 Identification plate The following placard is located on the pilot side of the empennage forward of the stabilator and made of stainless steel. Builder: Costruzioni Aeronautiche Tecnam Model: P92 Echo Super Serial number: 123 Revision Date: 10-29-2007 Revision Number: 3.01... Page 67 P92 Echo Super 8.1.22 Limitations placards On the pilot's panel a placard will state the following (27x7mm): NO SMOKING Next to the airspeed indicator is the following placard (6x52mm). Maneuvering speed V = 84 KIAS On the pilot's panel a placard will state the following:...