

SOCIAL MEDIA & IT'S EFFECT ON AVIATION SAFETY

MAINTENANCE DATA
EDITION





Grade 1 Flight Instructor

- Tail Wheel
- MPPC
- Retractable
- Aerobatics
- Formation
- Spinning
- UPRT Specialist



Tow Pilot
Air Experience Instructor (Not Current)

RAAus Flight Instructor (Previously CFI)

- Tailwheel
- Manual Propeller
- Low Performance
- High Performance
- 2 Stroke
- Formation



HOO - CASR Part 138

- Banner Towing

RAAus and CASR Part
141
FLIGHT TRAINING



DESIGN FEATURE &
FLIGHT ACTIVITY
TRAINING

SPECIALISING IN
LOSS of CONTROL InFlight PREVENTION
TRAINING
(LIDPT)



MAINTENANCE

16 Years - RAAF Avionics Technician

GSE
F111
Caribou
RAAF Museum
Maintenance Planning Specialist

6 Years – CANADA

Airlines & GA
QA & Avionics Maintenance Manager

LAME – Australia, Canada, PNG

DASH 8 – Classic & 400
GA Fleet Management

2 Years - Royal Air Force of Oman

Maintenance Planning Specialist
PC9, C130, BAC111, SC7, Jaguar
Paper Records – Full Electronic Records

8 Years - PNG National Jet/Cobham

(OKTEDI) FIFO
SBE for three DASH 8-100

Flight Safety Solutions

Aircraft Owner/Operator Support
Sport & Recreational Aviation Maintenance Training
Fully Compliant Electronic Aircraft Records System
(CASR43 Ready)

LSA & EXPERIMENTAL
AIRCRAFT MAINTENANCE
TRAINING
CASR Part 43



AIRCRAFT OWNER 101
TRAINING

CONTINUING
AIRWORTHINESS
MAINTENANCE
ORGANISATION

(CAMO)



**THIS PRESENTATION
IS NOT 2ND OR 3RD HAND
IS 100% PERSONAL EXPERIENCE**

**IMPROVEMENT OF THE SYSTEM FOR SAFER
AVIATION IS THE DESIRED OUTCOME**

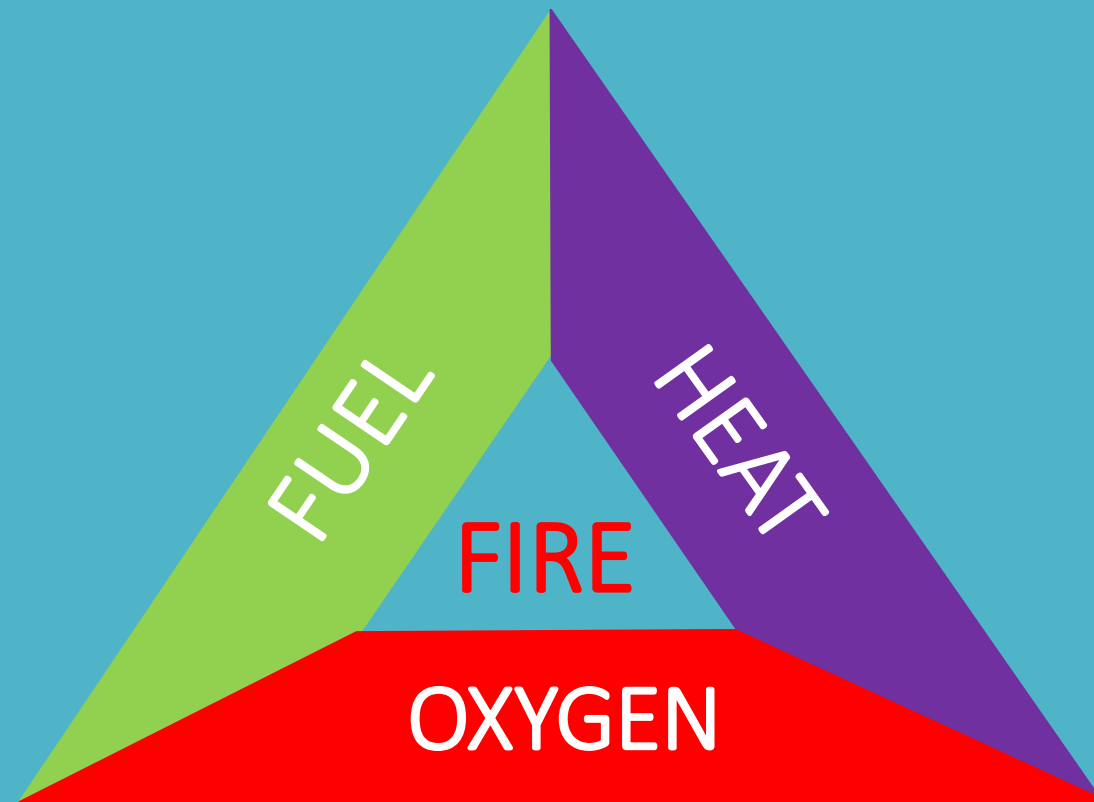


WHAT IS AIRWORTHY?

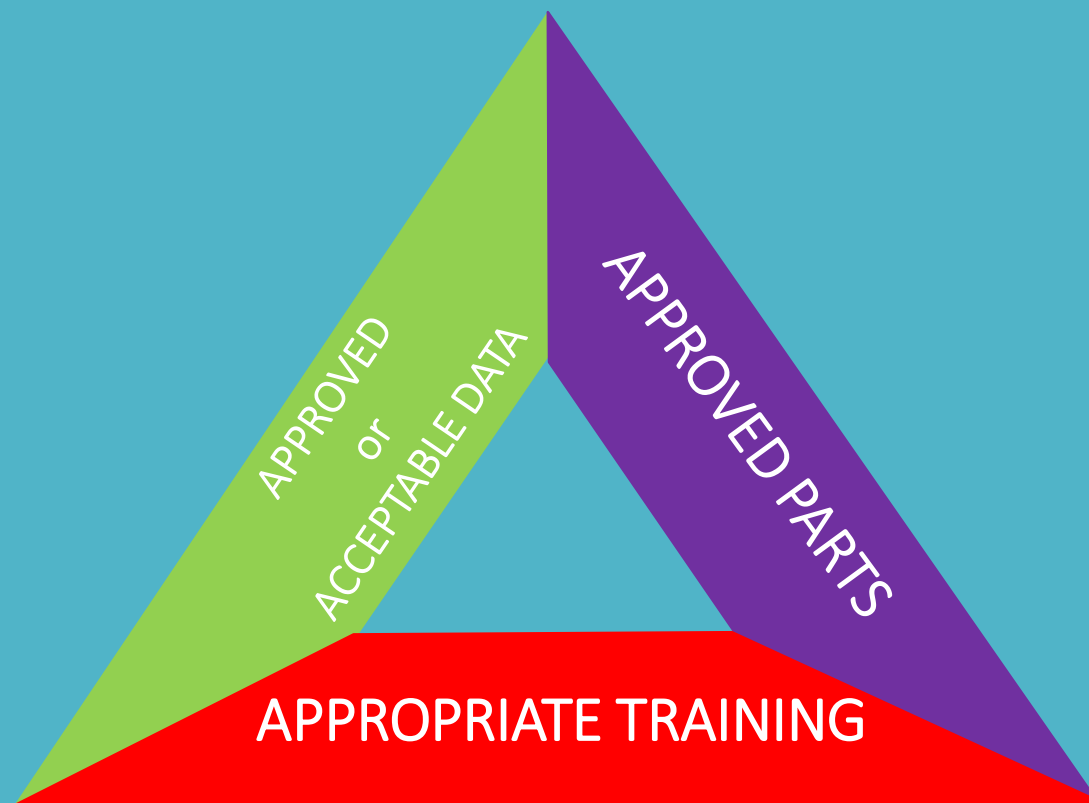
According to ICAO Annex 8, the term airworthy means

“The status of an aircraft, engine, propeller or part when it conforms to its approved design and is in a condition for safe operation.”

FIRE TRIANGLE



COMPONENTS FOR MAINTENANCE INTEGRITY



MAINTENANCE SAFETY CIRCLE



AIRWORTHINESS

Manufacturer builds aircraft/component to a **"STANDARD"** & monitors airworthiness, issuing **"ICAW"**

Owner/Operator selects and monitors the appropriate maintenance program **"WHAT"**

Maintainer performs maintenance IAW the appropriate standards of airworthiness **"HOW"**

Pilot ensures **ALL** maintenance **"HAS"** been performed before flight

ALL aviators keep accurate and visible records and adhere to a **"JUST"** reporting culture

Regulators and Administrators review reports, liaise with the Manufacturer to issue **"ICAW"**

Manufacturer builds aircraft/component to a
“STANDARD”

TYPE CERTIFIED	SPORT AIRCRAFT	EXPERIMENTAL	LIMITED
<p>FAR23 FAR25</p> <p>Approved by a Regulator</p>	<p>ASTM</p> <p>ASTM International <i>formerly known as American Society for Testing and Materials</i></p> <p>“SELF CERTIFYING”</p>	<p>KITS</p> <p>Must be built exactly per the plans to produce a clone copy of the manufacturers production built SLSA to be eligible for ELSA certification.</p> <p>NAPKIN</p> <p>Modification to KITS or CAO 95-10</p>	<p>WARBIRDS</p> <p>Ex-Military</p>

Owner/Operator selects and
monitors the appropriate
maintenance program **"WHAT"**

AIRCRAFT OWNER
101
TRAINING
FLIGHT TRAINING
PROVIDERS

Maintainer performs maintenance
IAW the appropriate standards of
airworthiness "HOW"

Standards – Removal of CAR 30
- CASR Part 43
- RAAus L2 Training

Standards
Hard to make a buck – “Grey
Maintenance”
Inadequate documentation

KIEV PROPELLER
IMPORT - FIRST OF
TYPE

Pilot ensures ALL
maintenance “HAS”
been performed
before flight

- 1.2 Maintenance includes all of those actions which are carried out on a recreational aircraft to ensure the aircraft is fit for flight and includes inspection, adjustment, repair and the incorporation of modifications. Maintenance **excludes** the design or redesign of modifications.
- The pilot- in-command of a recreational aircraft must ensure that the aircraft is fit for flight, currently registered and correctly maintained before each flight.

RAAus Technical Manual 4.1

“I just want to go flying” - Blind Trust

Changing Standards –Maintenance Releases

ALL aviators keep
accurate and visible
records and adhere to a
"JUST" reporting culture

“Do I have to report that?”

What's the point??

Regulators and Administrators review reports, liaise with the Manufacturer to issue "ICAW"




Manufacturers REQUIRED to monitor airworthiness, issuing "ICAW"


2.4 Continued operational safety monitoring of light sport aircraft


2.4.1 CASA requires the manufacturer to use a system to monitor and correct safety-of-flight issues in accordance with an approved LSA standard. For as long as an LSA is registered in Australia, it remains the manufacturer's responsibility to monitor for unsafe conditions in aircraft and notify owners/registered operators of corrective actions. It is incumbent on the manufacturer to evaluate all significant defects and correct any unsafe condition that may exist in the remaining fleet. To achieve this, the manufacturer should provide a method for the aircraft owner/registered operator to report any in-service difficulty.

← → ↻ astm.org/f2295-10.html

ⓘ ASTM International is providing no-cost public access to important ASTM standards used in the production and testing of personal protective equipment. Find out [more](#).

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ⓘ There is no PDF download available at this time, however you may purchase a copy of this document from the IHS Standards Store

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Standard **Withdrawn, No replacement** ⓘ Last Updated: Jan 11, 2019 [Track Document](#)

ASTM F2295-10

Standard Practice for Continued Operational Safety Monitoring of a Light Sport Aircraft (Withdrawn 2019)

Language ⓘ

Select Language

Language unavailable

Format

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Format unavailable

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MAINTENANCE SAFETY CIRCLE



AIRWORTHINESS

Manufacturer builds aircraft/component to a "STANDARD" & monitors airworthiness, issuing "ICAW"

Process for "IMPORT"

Owner/Operator selects and monitors the appropriate maintenance program "WHAT"

Understanding "RESPONSIBILITY"

Maintainer performs maintenance IAW the appropriate standards of airworthiness "HOW"

Avoiding "GREY MAINTENANCE"

Pilot ensures ALL maintenance "HAS" been performed before flight

Understanding the "RISK"

ALL aviators keep accurate and visible records and adhere to a "JUST" reporting culture

The importance of reporting "CULTURE"

Regulators and Administrators review reports, liaise with the Manufacturer to issue "ICAW"

The absence of "OVERSIGHT"

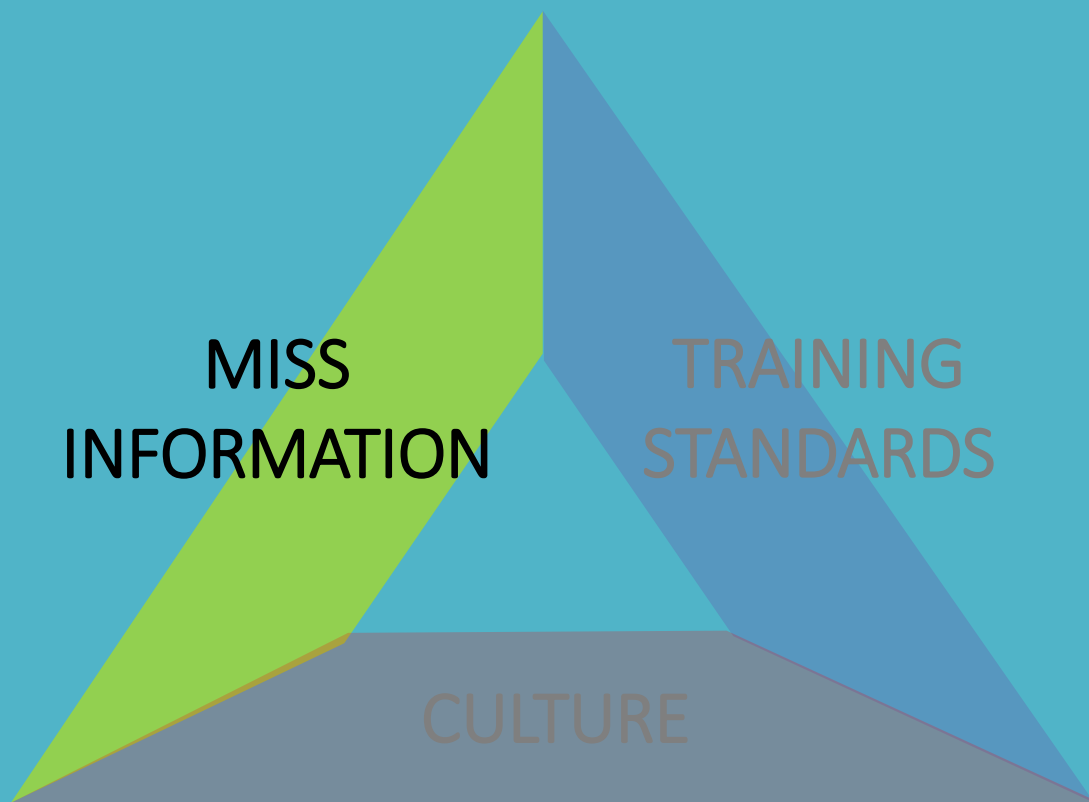
#HARDTODOTHERIGHTTHING

CONTRIBUTORS TO LOSS OF MAINTENANCE SYSTEM INTEGRITY



Are Social Media Platforms a Reliable Source for Information?





ACCESSIBILITY

- Manufacturers Data – Hard to find
- Social Media - Easy

CONTENT

- Anything is fair game

SOURCE DATA

- Whatever the individual feels like posting

VALIDATION

- There is no authentication of data

CREDIBILITY

- The more “Followers”, the more the credibility.

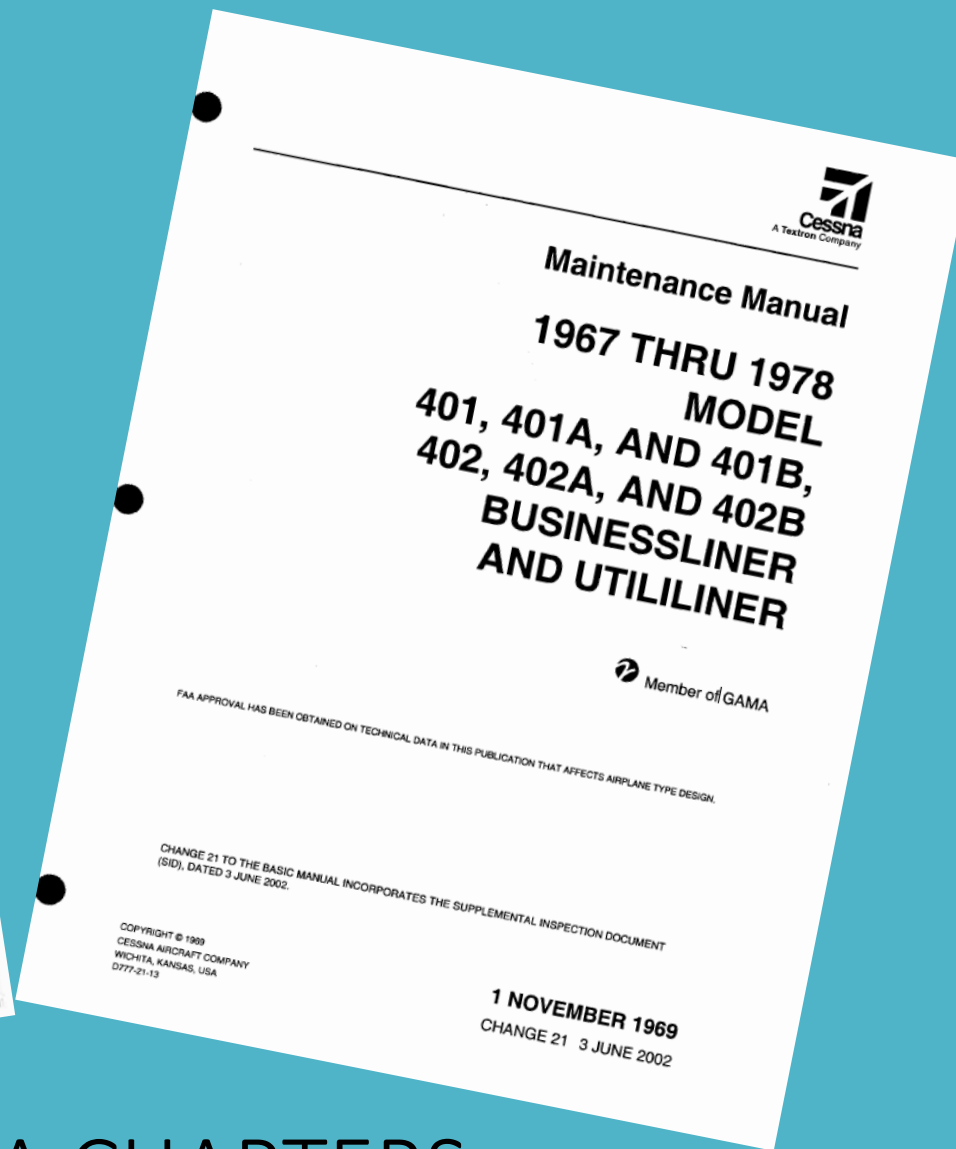
WHY ARE PEOPLE TURNING TO SOCIAL MEDIA FOR HELP TO FIND AIRWORTHINESS DATA?

WHAT DID WE DO BEFORE THE INTERNET??




WHERE DID WE FIND MAINTENANCE DATA??

GENERAL AVIATION AIRCRAFT



NO ATA CHAPTERS

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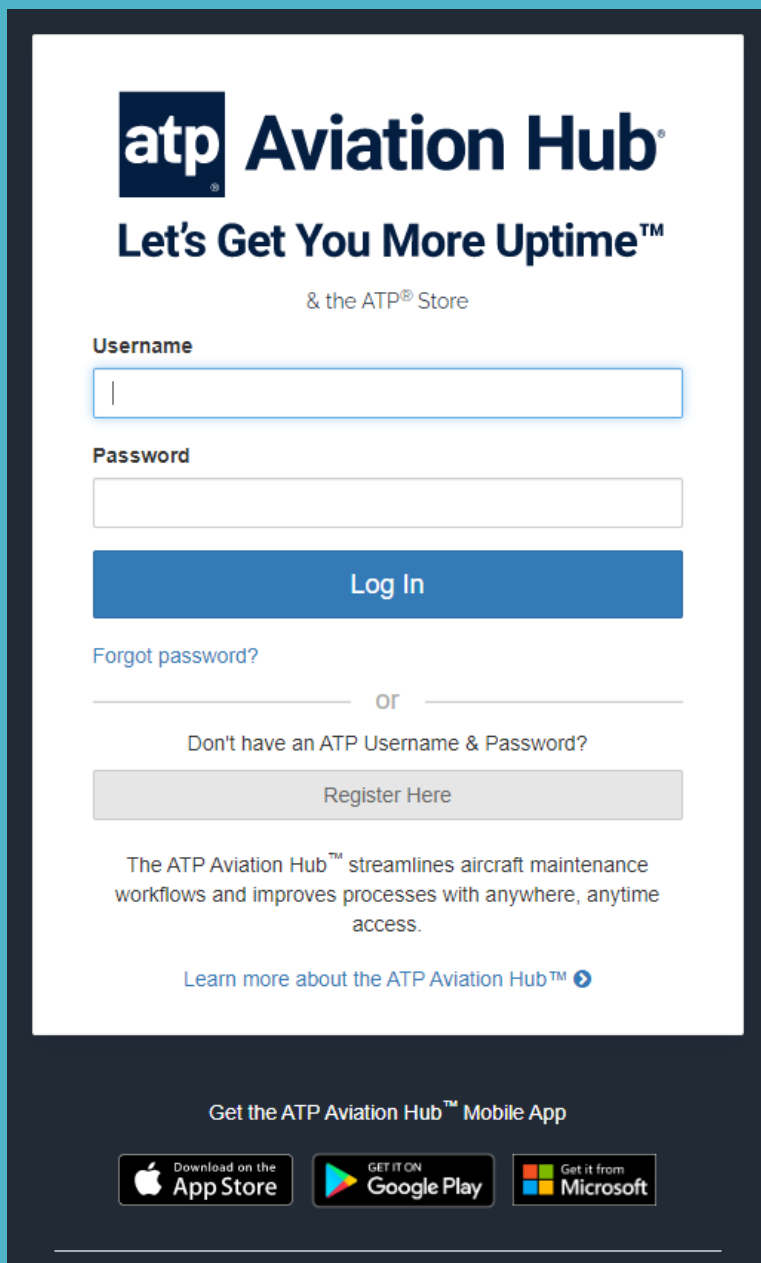
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CERTIFIED AIRCRAFT

- Expensive to subscribe
- Packages

OLDER AIRCRAFT

- Scanned .pdf of original manuals (no search)
- Manufacturers not likely to update
- ICAW by Service Bulletins

NEWER AIRCRAFT

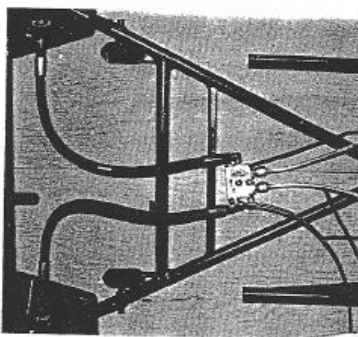
- Interactive and searchable manuals

AIRCRAFT MAINTENANCE MANUALS & ILLUSTRATED PARTS CATALOGS

BRAKES

CERTIFIED AIRCRAFT -

BELLANCA



BOTTOM VIEW

- BRAKE RESERVOIR —
- PEDAL ASSEMBLY —
- MASTER CYLINDER —

VIEW FUSELAGE

6-8. REMOVAL OF BRAKE HYDRAULIC

- a. Brake system is disconnected. Disconnect hydraulic lines from parking brake valve.
- b. The master cylinder is removed from the brake pedal and

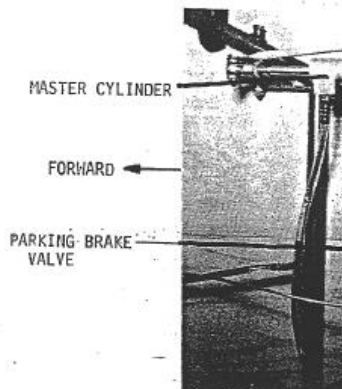
6-8

BELLANCA

bolt heads, washers, and nuts. On aircraft equipped with Gerdes (Gerdes), remove control wire, floorboard support

6-9. REPLACEMENT OF "O" RINGS (See Figure 6-4)

- a. Remove snap ring. Note direction of flow. Respect to valve. Move inlet and outlet fittings. Replace "O" ring on outlet fitting. Insert into body so that surfaces. Inspect assembly. (See

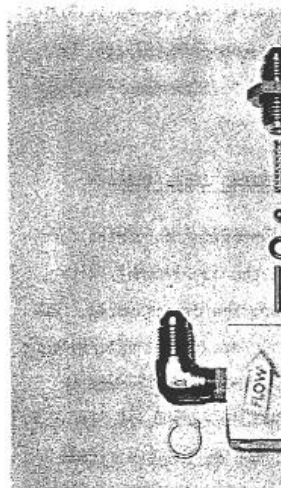


- MASTER CYLINDER
- FORWARD ←
- PARKING BRAKE VALVE

Reissued 5-1-79

BOTTOM VIEW: FUSELAGE

BELLANCA



PARKING BRAKE VALVE

6-10

BELLANCA



DECATHLON SERVICE MANUAL

6-10. REPLACEMENT OF "O" RINGS IN MASTER CYLINDER (GERDES) (See Figure 6-5)

- a. If aircraft has Gerdes master cylinder (see identification label on cylinder body). Remove snap ring on forward end of body. Remove piston rod assembly. Clean and replace any defective parts. Replace all "O" rings and teflon piston seal. Reassemble.

6-11. INSTALLATION OF MASTER CYLINDER

- a. Install master cylinder in reverse order of removal.

6-12. INSTALLATION OF PARKING BRAKE VALVE (GERDES)

- a. Install valve in reverse order of removal.
- b. Connect park brake control wire temporarily. Check travel on control to maintain 2 inch travel on control.
- c. Connect all hydraulic lines.

6-13. ASSEMBLY AND INSTALLATION OF MAIN WHEEL (See Figure 6-2)

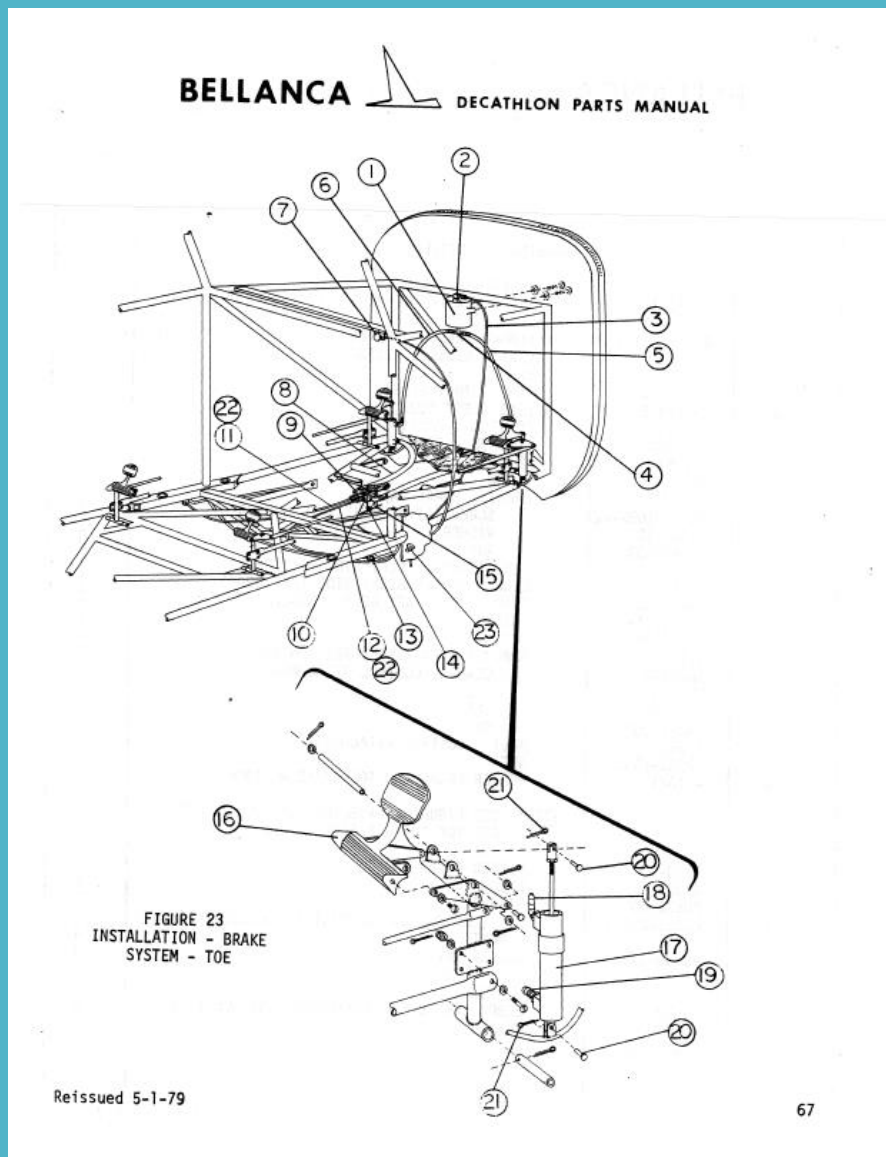
- a. Pack bearing with grease.
- b. Install tire and tube on proper wheel halves. Install three thru bolts and nuts.
- c. Install bearings, felts and retainer rings.
- d. Reinstall wheel on axle. (Axle brake torque plate and wheel pant mounting bracket must be attached to gear leg previous to installing wheel assembly.)
- e. Install axle nut to allow wheel to turn free yet not fit loose on axle. Cotter key nut. Install dust cover or wheel pant.

Reissued 5-1-79

MASTER CYLINDER

6-11

CERTIFIED AIRCRAFT IPC



BELLANCA **DECATHLON PARTS MANUAL**

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
23-	4-1624	DRAWING - INSTALLATION TOE BRAKE	
1	A-315	RESERVOIR - GERDES	1
	AN526-1032-6	SCREW (ATTACHMENT - FIREWALL)	2
	AN936-A10	WASHER (LOCK)	2
2	69F 1/8 x 1/8	ELBOW - RESERVOIR VENT	1
3	4-1624-1	LINE - RESERVOIR VENT	1
4	62056	TEE	1
5	4-1624-2	LINE (RIGHT SIDE)	1
6	4-1624-3	LINE (LEFT SIDE)	1
7	1-10399	CONTROL - PARKING BRAKE	1
	1-10180	PLACARD - PARKING BRAKE	1
8	2-2162	HOSE	2
9	AN822-4D	ELBOW	2
10	A-850-1	PARKING BRAKE VALVE	1
	AN526-1032-22	SCREW (ATTACHMENT TO FLOORBOARD)	2
	AN960-10	WASHER	2
	AN365-1032	NUT	2
11	2-2111-5	LINE ASSEMBLY LEFT SIDE (AFT GEAR)	1
12	2-2111-6	LINE ASSEMBLY RIGHT SIDE (AFT GEAR)	1
13	AN837-4D	ELBOW (REQ'D AFT GEAR INSTALLATION ONLY)	2
	AN960-716	WASHER	2
	AN924-4D	NUT	2
14	1-10181	BRACKET - PARKING BRAKE CONTROL	1
	AN742-4	CLAMP - CONTROL ATTACHMENT	1
	AN3-3A	BOLT	1
	1-2577-1	SHIM	1
	AN365-1032	NUT	1
15	1-2584	BOLT - CONTROL ATTACHMENT	1
	AN365-1032	NUT	1
16	4-1621	RUDDER PEDAL AND TOE BRAKE ASSEMBLY	1L/1R
		NOTE: SEE FIGURE 6 PAGE 18, FOR RUDDER PEDAL AND TOE BRAKE ASSEMBLY PARTS.	
17	A110-10	MASTER CYLINDER	2
18	62029	ELBOW	2
19	AN816-4D	NIPPLE	2
20	MS20392-2C17	PIN (TOP AND BOTTOM MASTER CYLINDER ATTACHMENT)	4
21	AN380-2-2	COTTER KEY	4
22	2-2111-8	LINE ASSEMBLY (REQ'D FOR WRAPAROUND INSTALLATION)	2
23	AN833-4D	ELBOW (REQ'D FOR WRAPAROUND INSTALLATION)	2
	AN960-716	WASHER	2
	AN924-4D	NUT	2

Reissued 5-1-79

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LIGHT SPORT AIRCRAFT -



Line Maintenance

Seats are made out of metal tubing framework with fabric covered fit adjusted by sliding backward and forward along rails fixed to cabin floor below seat cushions.

Cabin floor is constructed of light alloy and features matting.

Entire fuselage, wing and other exposed surfaces are finished with a Wash using only water, mild detergent and chamois. All parts in Per with lukewarm soapy water. In any case, never use, on this kind of s of solvent.

4.8 Landing Gear

The main landing gear (see fig. 4-12) consists of two special steel sp elastic cushioning of landing loads.

The two steel spring-leaf struts are attached to the fuselage undersid Two rawhide liners (2 3) are inserted between each spring-leaf and t spring-leaf to the edge of the girder via a light alloy clamp (4) while leaf-spring to the girder.

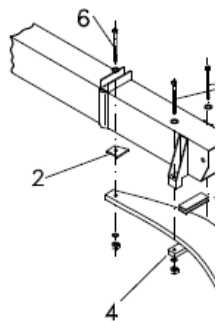


Figure 4-12 Main lan

Wheels are cantilevered on gear struts and feature hydraulically actu located on cabin tunnel between seats. Main gear wheels mount Air-

Hydraulic circuit shut-off valve (2) is positioned between seats. With activates parking brake function.

Doc. N° 92-13-120-



Line Maintenance Manual

P92

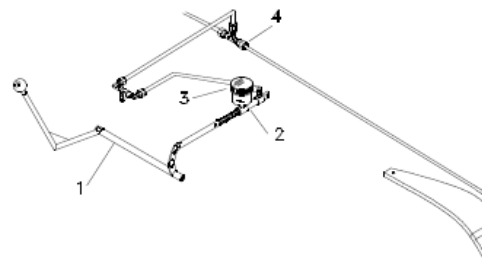


Figure 4-13 Hydraulic Brake Circuit

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 bott on lines to prevent spillage

Loosen bolts (part 5 fig. 4-12) of the aluminum clamp (part 4 fig. 4-12) that secure spring-leaf to

Remove bolt connection between inboard end of spring-leaf (part 6 fig. 4-12) and main girder

Remove gear strut by pulling outward from fuselage

Reinstall using reverse procedure. It is however necessary to eliminate any trapped air: once the in reservoir is at normal level, bleed air through dedicated valve. For best results, use external pu valves allowing trapped air to escape through open reservoir.

If braking action appears degraded, check and eventually replace main gear brake pads

Refer to Periodic Inspection Chart in Section B for any service operation to main gear

Doc. N° 92-13-120-00



Line Maintenance Manual

P92 Echo Classic *Reflexo*

4.8.1 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
- Remove bolt (4) and cup (5)
- Remove wheel lock nut (6)
- Unscrew 4 brake disc assembly bolts (See Figure 4-14 and Figure 4-15 (S))
- Carefully remove wheel assembly with both hands

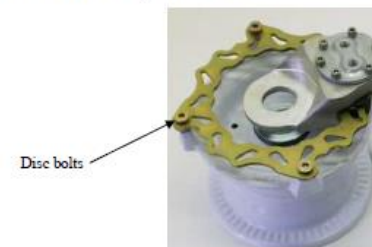


Figure 4-14
Figure 4-15 Removal of main gear wheel

Main Gear

4.8.2 Removal of cup-bearing from main gear wheel

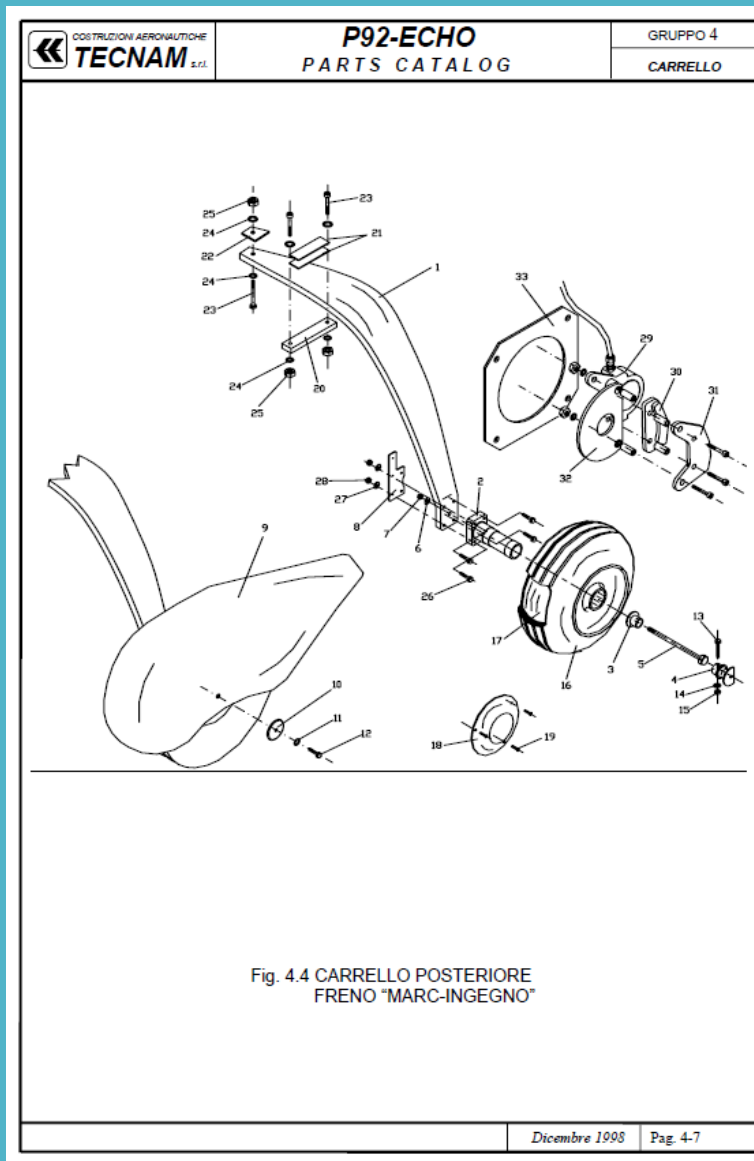



Doc. N° 92-13-120-00

40
Revision Date: 11-27-2008
Revision Number: 1.00

LIGHT SPORT AIRCRAFT

- IPC



	P92-ECHO PARTS CATALOG	GRUPPO 4
		CARRELLO

CARRELLO POSTERIORE - FRENO "MARC-INGEGNO"

Fig.	P/N	DESCRIZIONE	Q.tà
	92-8-002-000	COMPLESSIVO CARRELLO PRINCIPALE	2
1	92-8-300-1	BALESTRA	2
2	92-8-202-1	ASSALE	2
3	92-12-301-3	BICCHIERE FERMA RUOTA	2
4	92-12-301-2	ATTACCO CARENATURA (OPT.)	2
5	UNI 5737	VITE A T.E. CR8.8 M8 L=150 MM	2
6	UNI 6592	RONDELLA PIANA D=8	2
7	UNI 7473	LOBO M8 MB	2
8	92-12-301-4	STAFFETTA FISSAGGIO CARENATURA	2
9	92-8-410-1	CARENATURA RUOTA SX (OPT.)	1
	92-8-410-2	CARENATURA RUOTA DX (OPT.)	1
10	92-12-301-1	PASTICCA FERMA CARENATURA (OPT.)	2
11	UNI 1751	RONDELLA ELASTICA D=6	2
12	UNI 5739	VITE A T.E. M6 CR8.8 L=16 MM	2
13	UNI 5737	VITE A T.E. M4 CR8.8 L=35 MM	2
14	UNI 6592	RONDELLA PIANA D=4	2
15	UNI 7473	DADO AUTOBLOCCANTE M4	2
16		PNEUMATICO 5.00-5	2
17		CAMERA D'ARIA	2
18	157-00800	PIATTO COPRI-RUOTA	2
19	102-00600	VITE A T.T. M3.16 L=6 MM	6
20	92-8-204-1	CRAVATTA ANCORAGGIO BALESTRA	2
21	92-8-206-1	SPESSORE IN COMPOSITO	4
22	92-8-205-1	SPESSORE	2
23	UNI 5737	VITE A BRUCOLA M8 CR8.8 L=60 MM	6
24	UNI 6592	RONDELLA PIANA D=8	12
25	UNI 7473	DADO AUTOBLOCCANTE M8	6
26	UNI 5737	VITE A T.E. M6.35 CR8.8 L=39 MM	8
27	UNI 6592	RONDELLA PIANA D=6	8
28	UNI 7473	DADO AUTOBLOCCANTE M6.35	8
29		PINZA FRENO	2
30		PASTICCA INT.	2
31		PASTICCA EST.	2
32		SUPPORTO PINZA	4
33		DISCO FRENO	2

Dicembre 1998	Pag. 4-8
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LIGHT SPORT AIRCRAFT - AMM

BRAKE CALIPER



LIGHT SPORT AIRCRAFT -

AEROPKAK I-ZZLS Airplane Maintenance Manual

5 Brake system

The main wheels are equipped with Matco n includes: expansion tank, master cylinder with supporting plates, brake disks, copper tube brake system is filled with transmission fluid A mfg. The amount of the fluid in the system c tank that must be not less than half of the tank

When servicing the brake system it may be r disconnection air gets into its cavities whi necessary to fill the brake system with fluid to

To fill the brake system with braking fluid following:

- check the level of the braking fluid in th

WARNING! Use only the fluid that is i the fluids of different grade. This may c of the brake system.

- remove the cover set the parking brake
- remove protecting cap from the brake tube with the inner diameter of 3 mm (The other end of the tube put into a completely submerged into the fluid;
- while holding the tube loosen the nipple
- pump the braking fluid through the syst appearing completely in the transparei time of such pumping); while doing it expansion tank to avoid air inflow into t
- after air bubbles disappear, tighten th and put on the protecting cap;
- repeat above actions for the other whe

To fill the brake system with braking fluid in t following:

- remove the stick cover;
- remove the stick from the roll torque tu
- remove the parking brake;
- remove the clamps holding the brake s
- put the stick on the longitudinal beams up and pump the brake system throug with yokes;
- re-assemble everything in the reversed

WARNING! When filling the brake system it i in the amount of 1 to 2 volumes of the expans

For more detailed information about maintena visit its manufacturer web site: <http://www.mai>

Recommended special tools: none.

Necessary parts/materials: 300 mm of

AEROPKAK I-ZZLS Airplane Maintenance Manual

INSPECTIO

Part No.	Description
-	Expansion tank
See Matco P/N	Master cylinder
See Matco P/N	Parking brake valve
See Matco P/N	Brake unit assembly, right
See Matco P/N	Brake unit assembly, left
See Matco P/N	Brake disk, right
See Matco P/N	Brake disk, left
-	Copper tubes
-	Reinforced rubber hose

Instructions:

- 5.1 Remove the top engine cowling. Inspect i cracks in its housing and cap. If the tan brake system must be filled with braking the beginning of this section.

Check the fluid level in the tank and refill half of the tank. Make sure the tank attac plastic cable ties if necessary.

Recommended special tools: none.

Necessary parts/materials: none.

- 5.2 Remove handles from the control levers the horizontal panel. Inspect the master are detected, it must be removed for repa

In order to remove the master cylinders, c

- remove the left seat;
- remove the panel between pilot seats;
- disconnect the control cables of the e engine and trim tab ends, and then from
- undo the screws of the control lever unit
- block the reinforced rubber hose near clamp and disconnect it from the master
- disconnect the copper tube connecting i

WARNING! When disconnecting the br fluid may spill out.

- remove the control lever unit assembled
- detach the master cylinder from the con

To install the master cylinder perform th re-assembling fill the brake system follow this section. Then adjust the control syst described in the corresponding sections c

If no defects were detected in the mas reversed order.

AEROPKAK I-ZZLS Airplane Maintenance Manual

Recommended special tools: none

Necessary parts/materials: none.

- 5.3 Remove the handles from the contr and the horizontal panel. Inspect tl fluid.

If any leak is detected the valve mus

In order to remove the parking brake

- block the reinforced rubber hose cylinder by squeezing the hose with
- cut the plastic cable ties fixing the v
- undo the screws attaching the valv
- disconnect the copper tubes from tl

To install the parking brake valve l order. After assembling fill the bra instructions described in the beginni

If no defects are detected in the pa reversed order.

Recommended special tools: none

Necessary parts/materials: none.

- 5.4 Remove the wheel fairing. Inspect tl any leak is detected the brake unit r

To remove the brake unit, do the foll

- put the wheel chokes under the no;
- lift the airplane using a jack place fuselage bottom skin for the MLG s
- unlock and undo the brake disk scr
- remove the wheel and brake disk;
- disconnect the copper tube from th
- disconnect the brake unit from tl screws of the brake unit) and remo

To re-install the brake unit perform assembling fill the brake system foll of this section.

Check the brake pads for integrity i 2.54 mm (0.1 in). The wear may be i the braking pad. In case of seriou replaced. In order to do that, detacl the brake pads (the braking syste brake unit). For more detailed instru pads contact the manufacturer (Mat If the wear is within the permissibl order. Before re-installing the attach on their thread.

Recommended special tools: none

Necessary parts/materials: Loctite

AEROPKAK I-ZZLS Airplane Maintenance Manual

AZZLS-AMM-UZ

- 5.5 Define the nature and degree of the brake disk wear. For that remove the brake disk as described in 0. Measure the brake disk thickness at its working surface. It must be at least 3.3 mm (0.13 in). If the disk thickness is less than that, the brake disk must be replaced. For more detailed instructions on servicing and replacement of the brake disk contact the manufacturer (Matco mfg).

If the wear is within the permissible limits, re-assemble everything in the reversed order. Before re-installing the attachment screws of the brake disk apply Loctite 222 on their thread.

Recommended special tools: none.

Necessary parts/materials: Loctite 222.

- 5.6 Remove the handles from the control levers of the throttle, elevator trim tab and brakes, horizontal panel, main wheel fairings and pilot seats. Inspect the tubing of the brake system for leaks and damage. Pay special attention to the joints. If leaks and damage is detected replace the corresponding portion of the tubing. To obtain additional technical support contact the manufacturer.

After re-assembly fill the brake system following the instructions described in the beginning of this section.

After inspection (repair) re-assemble everything in the reversed order. Before re-installing the pilot seats apply Loctite 222 on the thread of the attaching bolts.

Recommended special tools: none.

Necessary parts/materials: Loctite 222.

LIGHT SPORT AIRCRAFT

- IPC

AEROPRAKT-22LS Illustrated Parts Catalog

A22LS-IPC-02

	<p>NAME: Main wheel mud-screen PART NO.: A22LS-02-3001 R A22LS-02-3001 L WEIGHT: 0.37 kg</p> <p>НАИМЕН.: Щиток основного колеса НОМЕР: A22LS-02-3001 R A22LS-02-3001 L ВЕС: 0.37 кг</p>
	<p>NAME: Set of 6x6 wheels with brakes PART NO.: A22LS-02-4000 WEIGHT: 13.5 kg</p> <p>НАИМЕН.: Комплект колес 6х6 с тормозами НОМЕР: A22LS-02-4000 ВЕС: 13,5 кг</p>
	<p>NAME: Master brake cylinder PART NO.: A22LS-02-5000 WEIGHT: 0.2 kg</p> <p>НАИМЕН.: Главный тормозной цилиндр НОМЕР: A22LS-02-5000 ВЕС: 0.2 кг</p>
	<p>NAME: Braking system fittings (a set) PART NO.: A22LS-02-5001 WEIGHT: 0.13 kg</p> <p>НАИМЕН.: Фитинги тормозной системы (комплект) НОМЕР: A22LS-02-5001 ВЕС: 0.13 кг</p>

21

AEROPRAKT-22LS Illustrated Parts Catalog

A22LS-IPC-02

	<p>NAME: Braking system tubing (a set) PART NO.: A22LS-02-5002 WEIGHT: 0.25 kg</p> <p>НАИМЕН.: Трубка тормозной системы (комплект) НОМЕР: A22LS-02-5002 ВЕС: 0.25 кг</p>
	<p>NAME: Braking system expansion tank PART NO.: A22LS-02-5003 WEIGHT: 0.04 kg</p> <p>НАИМЕН.: Тормозной расширительный бачок НОМЕР: A22LS-02-5003 ВЕС: 0.04 кг</p>

22

LIGHT SPORT AIRCRAFT -

AEROPRO EUROFOX MAINTENANCE MANUAL

II. INSTRUMENTS

	Type	Serial No.
Airspeed indicator		
Altimeter		
Vertical speed indicator		
Bank indicator		
Magnetic compass		
Radio		
Attitude indicator		
Transponder		
Fuel pressure		
Engine instruments - Turn-indicator		
Engine instruments - Oil pressure		
Engine instruments - Oil temperature		
Temperat. head cylinder		
Engine-hour meter		

III. STORAGE BATTERY

Type	DRYFIT A512/16G5	
Voltage	12 V	
Capacity	16 Ah	

The storage battery is located behind the right-hand pilot's seat.

2.5 Landing Gear

Landing device is a type of tricycle undercarriage with a controllable nose wheel.









The main landing gear is formed of lever-type swinging legs of laminat. Wheels with low-pressure tires of 14x4 size are provided with hydraulic disc brakes operated from the left-hand pilot's seat. As custom-tailored, the brakes may be interconnected mechanically to be operated from the right-hand seat as well.

The nose-wheel landing gear is welded of steel tubes. The nose wheel is equipped with a tire of 12x4 size.

- Date -

2-6








LIGHT SPORT AIRCRAFT





37B	BMP Brake & Fitting Lubricant		4.00
38B	Set of O-rings gaskets for brake cylinder / Evektor		5.50
	Set of O-ring for old version of master brake cylinders		11.00
38B	Set gaskets for brake cylinder / Evektor		----
40B	Springs under the balls for brake cylinder / Evektor		3.30
41B	Set of rubber O-rings and pistons for old brake system for master cylinders on pedals.		135.30
42B	"Bleed screws" for our brake callipers M3 – old version of callipers		1.10
43B	metal balls – valve for bleed screws M4		3.30

	496.40
	457.30
	12.10
	35.00
	141.90
	1.10
	0.70
	54.60

	39.40
	7.70
	1.10
	4.90
	522.40
	760.70
	202.90
	392.20
	104.80

	54.60
	2.10
	19.70
	41.50
	41.50
	1.10
	12.10

	348.70
	424.80
	424.80
	83.00
	4.40
	6.60
	91.70

	596.20
	685.00
	500.80
	78.60
	901.20
	348.70
	348.70
	348.70

THE IMPORTANCE OF USING AIRCRAFT ILLUSTRATED PARTS CATALOG

AIRCRAASH INVESTIGATORS BAC111 – WINDSHEILD BOLTS



NOTICE OF CORRECTIVE ACTION

N°06-LSA

Issue Date: 17-05-2012

Page 1 of 1

NOTIFICATION	<input checked="" type="checkbox"/>	SERVICE BULLETIN	<input type="checkbox"/>	SAFETY ALERT	<input type="checkbox"/>
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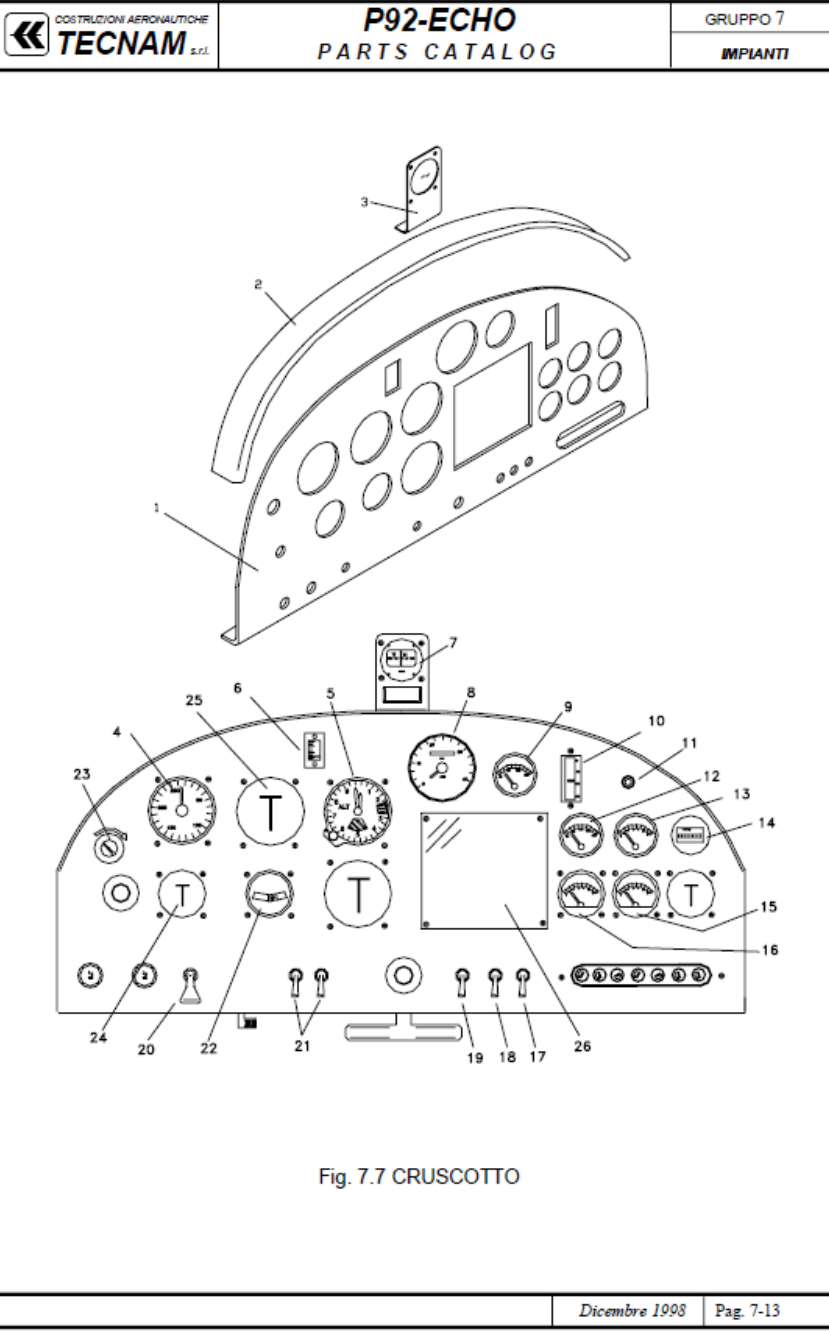
A/C and s/n AFFECTED	All models
TIME OF COMPLIANCE	Nil
WORKING PLACE	Nil

Subject: Use of not original spare parts for Tecnam airplanes.

Scope: Tecnam became aware that some aircraft owners/operators sometimes do not use original spare parts; in particular, Tecnam would like to notify that recently an operator replaced fuel hoses, in accordance with time limits reported on the AMM, but he used NOT original fuel hoses, that, after investigation, have been shown being incompatible with approved fuels.

In this case, safety of flight has been affected and this event originated the present communication that has the scope of making sensitive all owners/operators about this subject.

Tecnam takes care of customer's safety and strongly recommends using only original spare parts, tested and selected over 20 years of experience and, at the same time, informs the customers that it shall not be liable for aircraft damages due to the use of not original spare parts.



	P92-ECHO PARTS CATALOG	GRUPPO 7 IMPIANTI
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Fig. 7.7 CRUSCOTTO

Dicembre 1998	Pag. 7-13
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	P92-ECHO PARTS CATALOG	GRUPPO 7 IMPIANTI
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CRUSCOTTO

FIG.	P/N	DESCRIZIONE	Q.tà
1	92-12-106-1	CRUSCOTTO	1
2	92-9-907-1	PALPEBRA	1
3	92-12-113-1	SUPPORTO BUSSOLA	1
4		INDICATORE VELOCITA'	1
5		ALTIMETRO	1
6		INDICATORE TRIM	1
7		BUSSOLA MAGNETICA	1
8		CONTAGIRI MOTORE	1
9		TEMP. TESTA CILINDRI	1
10		INDICATORE POSIZIONE FLAP	1
11		LUCE GENERATORE	1
12		TEMPERATURA OLIO	1
13		PRESSIONE OLIO	1
14		CONTAORE	1
15		LIVELLO CARBURANTE DX	1
16		LIVELLO CARBURANTE SX	1
17		INTERRUTTORE LUCI NAVIGAZIONE	1
18		INTERRUTTORE LUCE STROBE	1
19		INTERRUTTORE FARO ATTERRAGGIO	1
20		INTERRUTTORE FLAPS	1
21		INTERRUTTORE MAGNETI	1
22		VIROSBANDOMETRO	1
23		STARTER CON CHIAVE	1
24	92-12-111-1	TAPPO PICCOLO	2
25	92-12-111-2	TAPPO GRANDE	2
26	92-12-123-1	COPERCHIO VANO RADIO	1

Dicembre 1998	Pag. 7-14
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TECNAM CORROSION

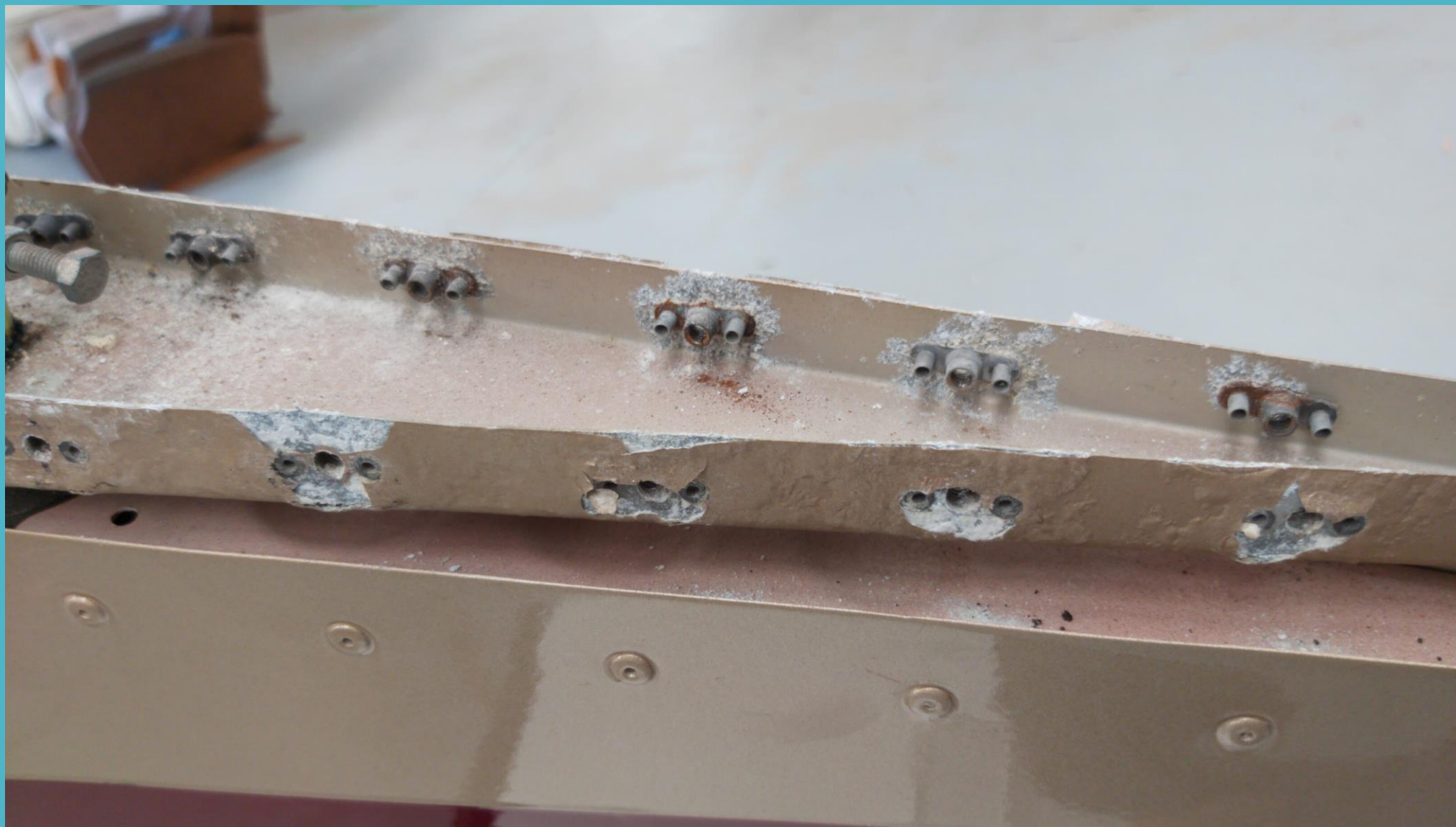


Sharp Wings Photography

TECNAM CORROSION



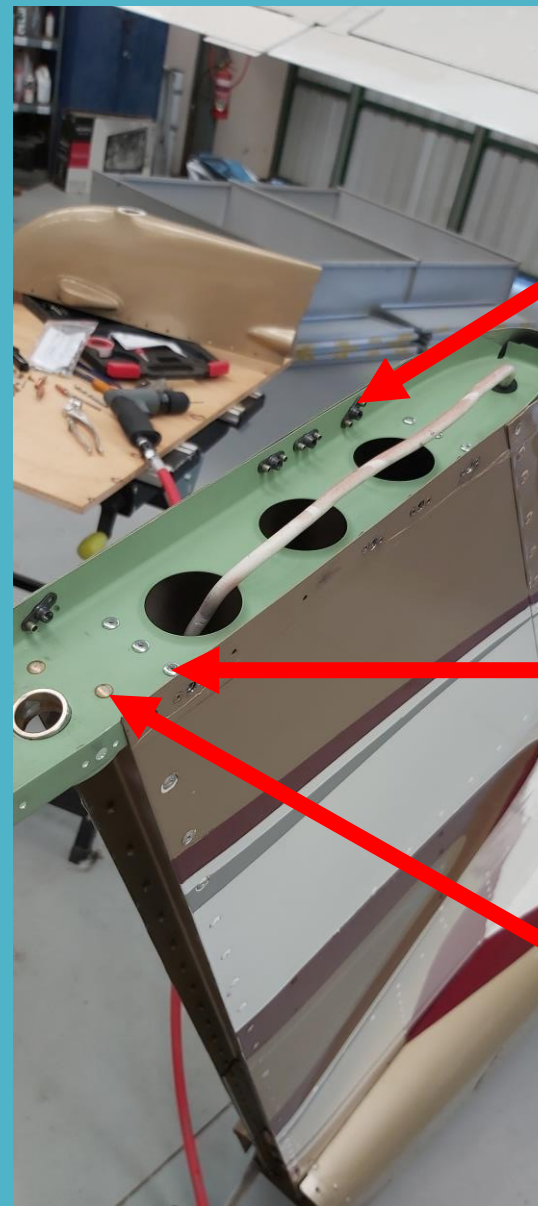
TECNAM CORROSION



TECNAM CORROSION

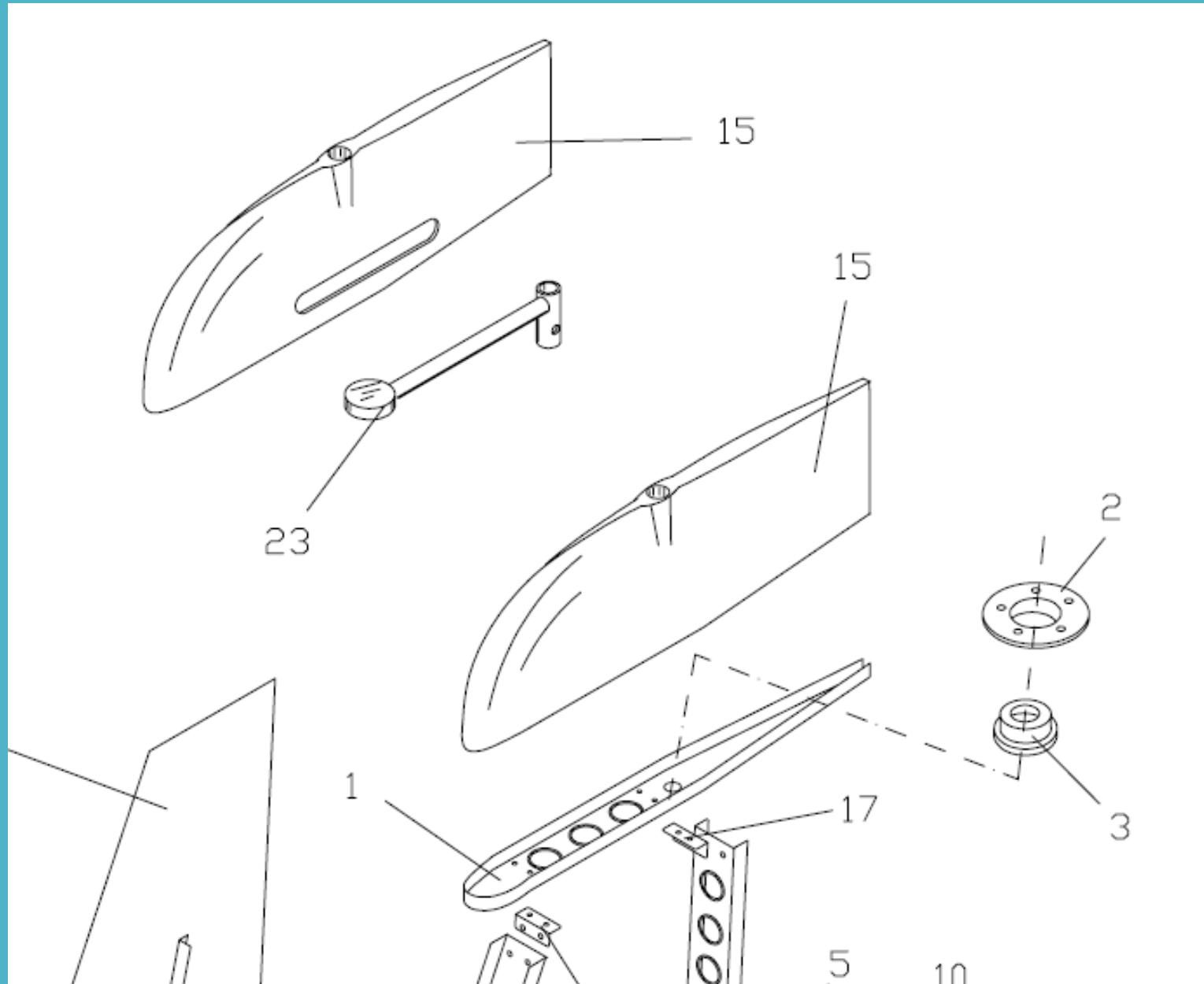


TECNAM CORROSION



TECNAM RIVETS

TECNAM CORROSION



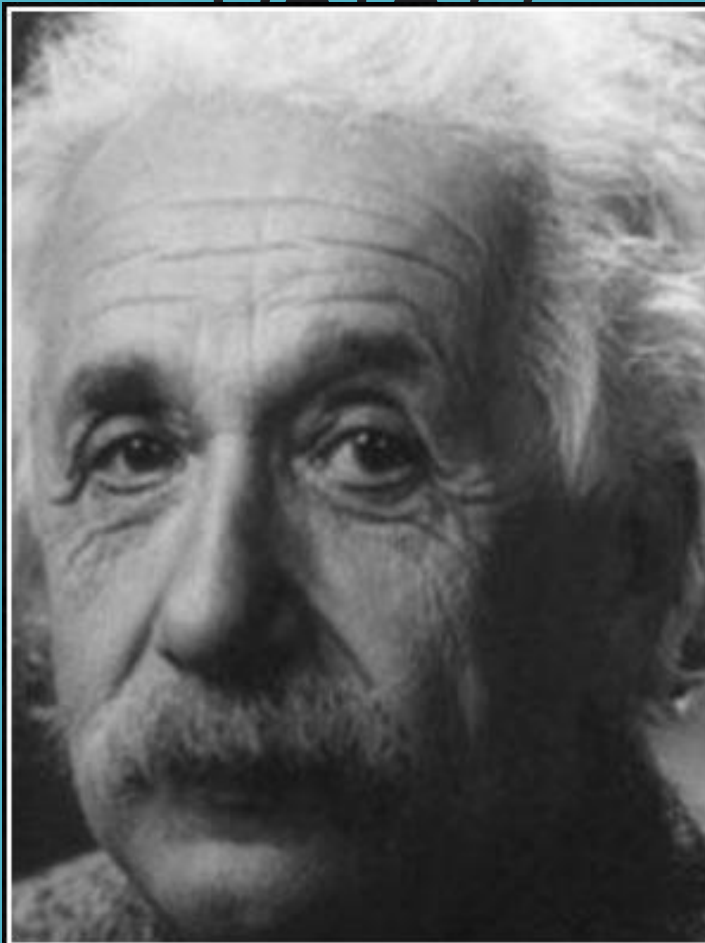
WHICH RIVETS SHOULD BE USED?

Is there a Structural Repair Manual?

How does the maintainer know what rivet to use in what location?

Didn't you see Air Crash Investigators
BAC111 windshield??

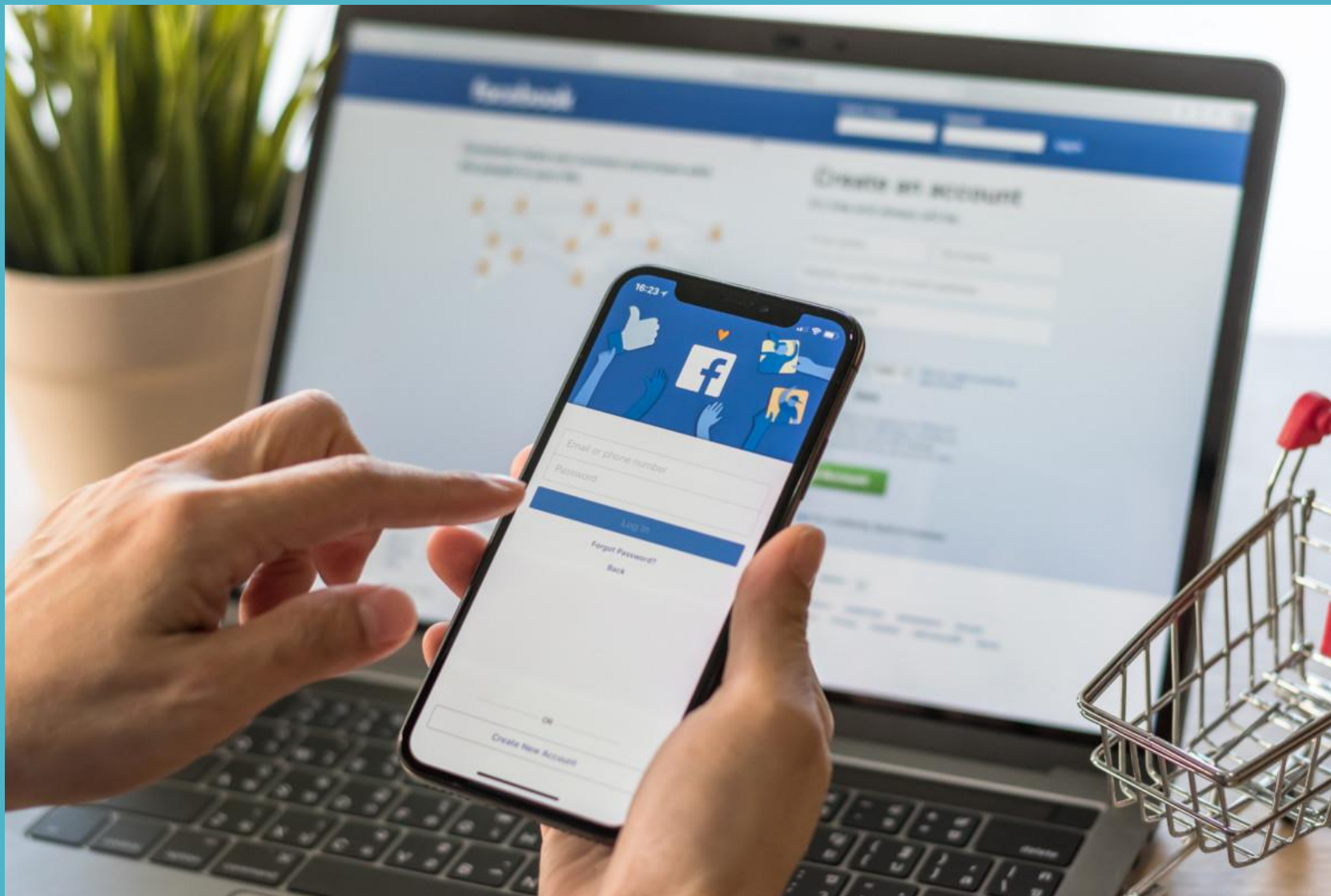
WHERE DO I FIND MAINTENANCE DATA??



Know where to find the information
and how to use it - That's the secret
of success.

— *Albert Einstein* —


AZ QUOTES




Citing Facebook as a reference – Harvard Style

<https://www.youtube.com/watch?v=uYUvsuJsR0k>

DISCLAIMER

 February 19 · 🌐

Hello fellow aviators. I have a starter motor problem and would like to replace it. I live in Italy and spare parts are not available quickly here. **Does anyone know if the starter motor is the same as in a car?** do you know if a different version of moped was mounted compared to mine? thank you all. I attach photos.



👍 1 3 comments

👍 Like 💬 Comment 📧 Send

EXPERIMENTAL

Robert's Post

December 30, 2022

Today everyone. I've got a [redacted]. I noticed [redacted] when pushing the [redacted] plane that I seem to have quite a bit of sideways engine movement when I push on [redacted] on either side of the prop. How much movement is considered normal? I'd think the rubber mounts would allow some movement but I'm worried [redacted] may be excessive.

3 likes 23 comments

Like Comment Send

All comments

[redacted] Mine has almost none at all, best ground that aircraft and check what the problem is. Even worn mounting rubbers won't let the engine move far, check engine mount for cracks and mounting bolts to firewall.

Like Reply 18w 2

[redacted] Author [redacted] a. I'll pull the cowl off tomorrow and have a look. We did have heavy turbulence for 3 hours in our last flight, maybe something has come loose. No noise just movement that feels like it's the rubbers letting it move. Would you know where to get new rubbers?

Like Reply 18w

[redacted] None, replace the rubbers.

Like Reply 18w

[redacted] Author [redacted] righto. Mine has quite a bit. Better get the covers off and check it out.

Like Reply 18w

[redacted] Author [redacted] wouldn't know where you could get the rubbers from do you Jeff?

Like Reply 18w

[redacted] in Australia you would get them from [redacted] directly, if overseas, your relevant [redacted]

 March 23 · 🌐

What size socket fits this bolt head? It is two bolts that attach the tailwheel leaf spring. It's somewhat difficult to access, but doable, is it a 5/8" or 9/16 or?



9 comments

👍 Like 💬 Comment 📧 Send

EXPERIMENTAL AIRCRAFT ENGINES



EXPERIMENTAL AIRCRAFT ENGINES

ICAW




- No published Maintenance Schedule
- No IPC
- No Service Bulletin structure

COMMUNICATION

- Long reply period for emails
- Difficult to get on the phone

PARTS SUPPORT

- Shopping list
- List not updated when parts proven to be inadequate

 Admin Top contributor · July 12, 2022 · 🌐

Hi AM Owners

I also have experienced a partial alternator failure on my engine. Just noticed over the last few flights the alternator dropping offline for random lengths of time, sometimes 1 min to 20 mins. I have also experienced from new a huge load (60 amps) everytime I bring on the alternator online after start. This high load gradually unloaded over 30 to 60 seconds, but it caused the engine to drop over 200rpm and it would not of been good for my batteries or other electrical components. My new Alternator hardly effects my engine rpm now. I replaced it with this new OEX brand alternator from Repco Australia <https://www.repco.com.au/.../oex-alternator.../p/A9614552>

The original alternator had no branding, no serial numbers. I now have 37 hours on the engine.

I suggest all owners to consider this upgrade as we require electrical power to remain in the air !!!

I have filed a safety notice with <https://flightsafetyolutions.com.au/manufacture-support/>
I encourage everybody who has had the same problem to do the same no matter where you are in the world.






EXPERIMENTAL

REPCO.COM.AU

OEX Alternator 12V 40A Denso Style - DXA4035

It starts with the parts - At Repco we have a wide range of Alternators. OEX Alternator 12V 40...

 July 26, 2022 ·  

Denso alternator is what we use. The number is 16678-64014. Please check alternator belt tightness every 10 hours. It has to be tight to make alternator work. Also check alternator connection and wire when alternator is not providing electric.

Starter replacement will work from Metro, Swift.

EXPERIMENTAL



 Admin Top contributor · May 24, 2022 · 🌐


Today Dad and I changed out our run in oils from the engine and gearbox. While unwinding the oil sump plug by hand it broke away from the thread. I admit that I did not use a torque wrench when I last installed this plug but it was not stupidly tight. In my opinion the plug is too lightly manufactured, there is very little structure to the plug outside of the magnet. I don't want to use a sump plug that has the ability to break easily even if it is slightly over torqued. This is what I now have in my aircraft <https://www.supercheapauto.com.au/.../pre.../SPO1851048.html>

EXPERIMENTAL




👍 🤔  and 11 others 9 comments

👍 Like 💬 Comment 📧 Send

 June 5, 2022 · 🌐

Laying my lack of knowledge bare here, chaps. Couldn't find these bits of plumbing in the manual. Please advise:



👍❤️ 10 15 comments

👍 Like 💬 Comment 📧 Send

EXPERIMENTAL

~~Redacted~~
 March 12 · 🌐
 On the subject of hoses, the ID of the pipe is about 25mm, with the barbs quite tight to seal it. Is this normal or different to everyone else?



...
 OD fittings. I had a bit of trouble with the 0 and 01-0007 does not work as it bends to either side.



LSA
EXPERIMENTAL

2 likes · 2 comments · Send

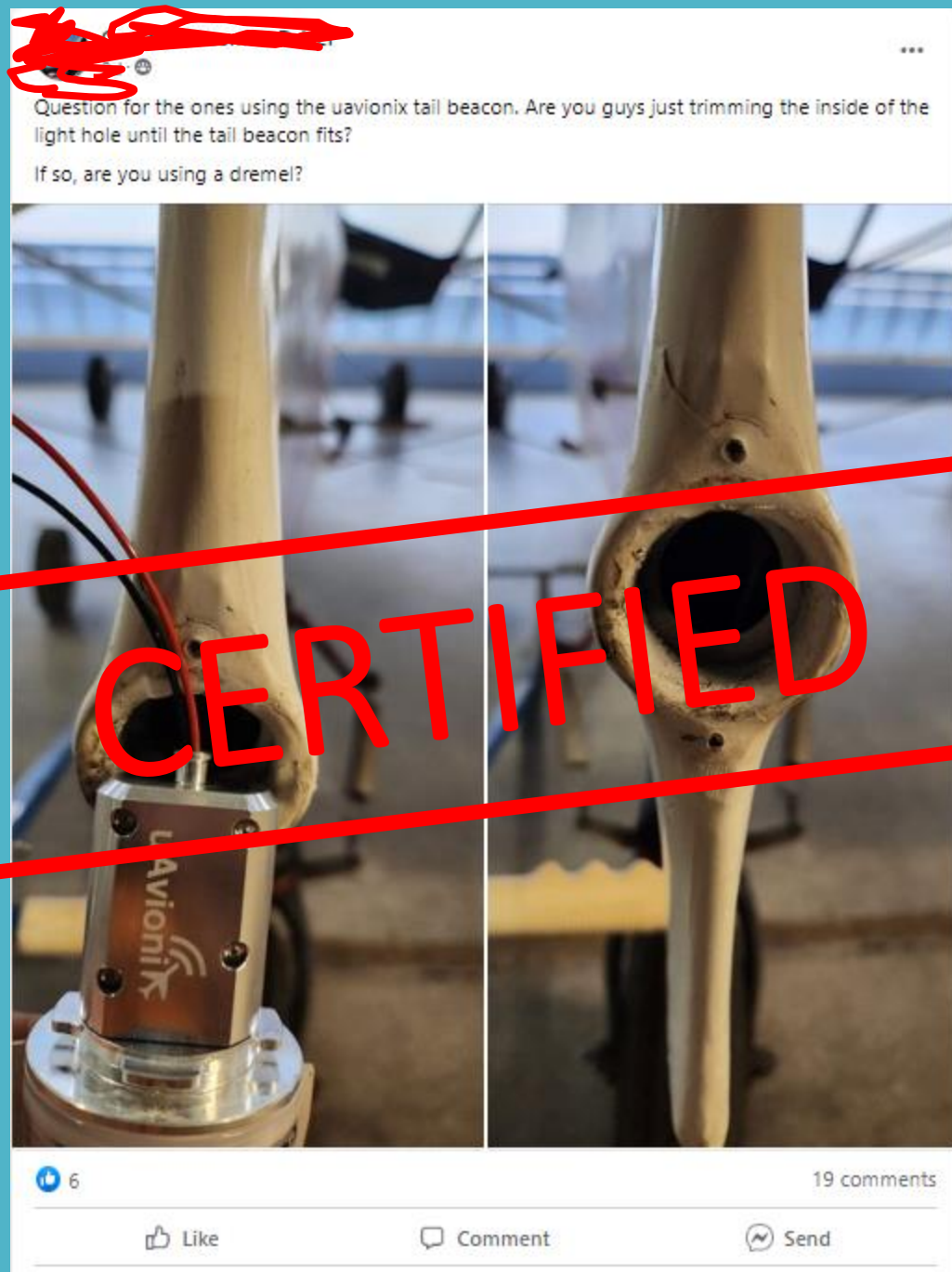
~~Redacted~~ group expert
 The hoses are not really the high point of the kit....clamp onto the barb usually helps sealing, but you will likely have a few iterations before it is coolant tight. Having said that once it is all set up it seems to remain leak free.

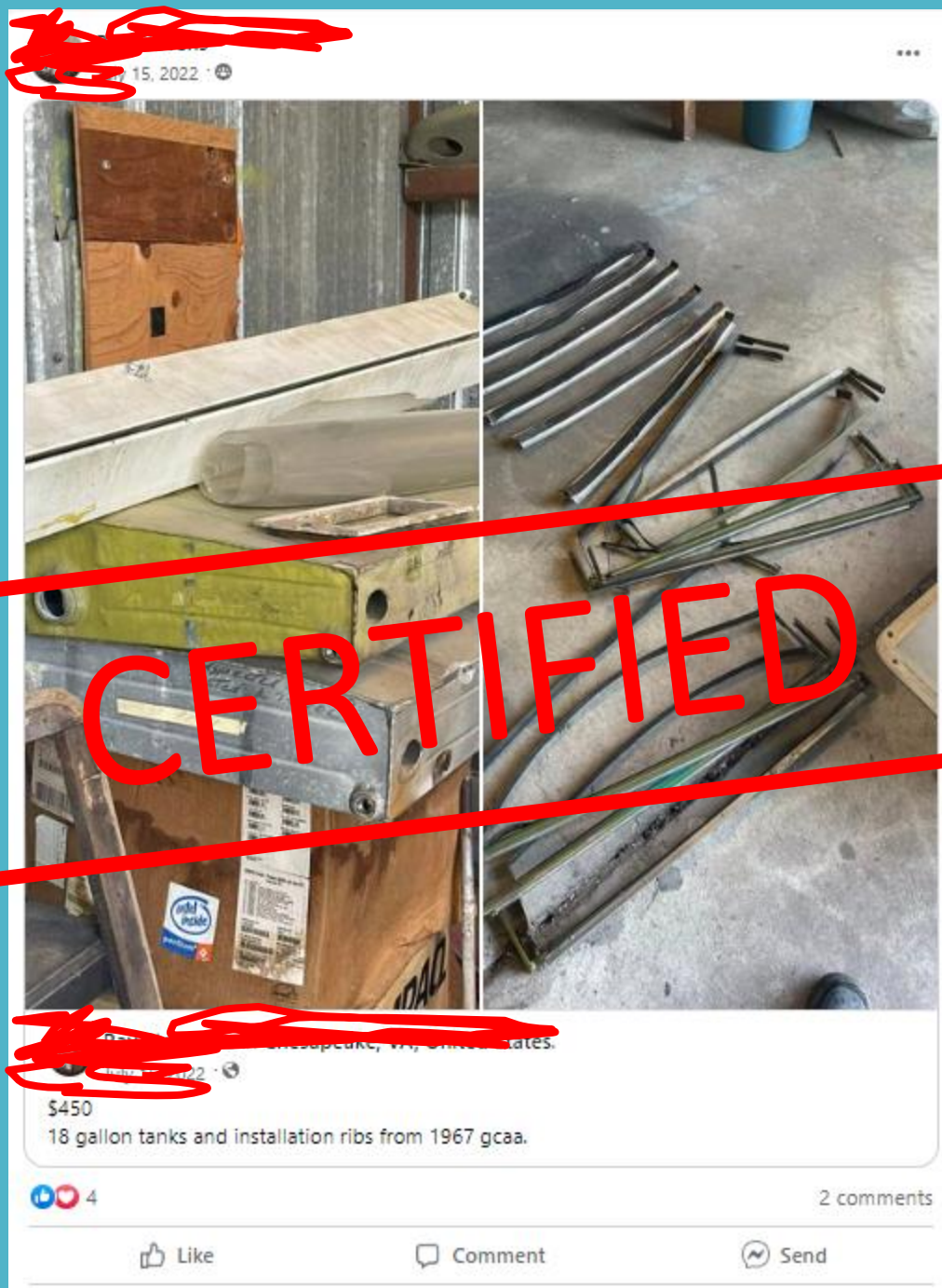
Like Reply 7w
~~Redacted~~ Author
 that's no good 😞 the barbs are really only for a clamp to sit behind to stop a hose pulling off. Did you have to do that to the hose on the aluminium pipes as well, or just the expansion bottle? What I might do is 'double clamp' so that there is a clamp in the correct position and a clamp on the barb 😊

Like Reply 7w
~~Redacted~~ Author
 I'll answer my own question- the expansion bottle pipe turns out to be the same size as the ali pipes in the kit, so it must be ok 😊

Like Reply 8w

2 comments · Send






April 28 at 2:18 AM · 4 comments

Can someone post a picture of their quick release pin for the backseat stick? I ordered that part from [redacted] and it wasn't what I was expecting. But it's also missing parts, so I want to see what the setup is supposed to look like. I've been calling [redacted] but they must be busy this week. Thanks!

Like Comment Send


Top comments ▾

Go ahead for the rear seat quick disconnect while you are at it.




Like Reply

Don't drop it into your plane while installing. You can see when I had to emery cut my stick so it will come in and [redacted] My wife wants it out when she's riding back there.



Like Reply 1w

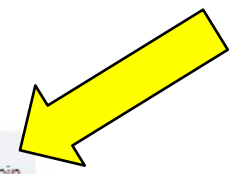
Nothing but a pin and clip



Like Reply 1w

I just went to local hardware store and bought a pit pin

CERTIFIED

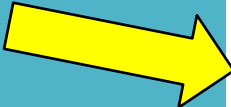


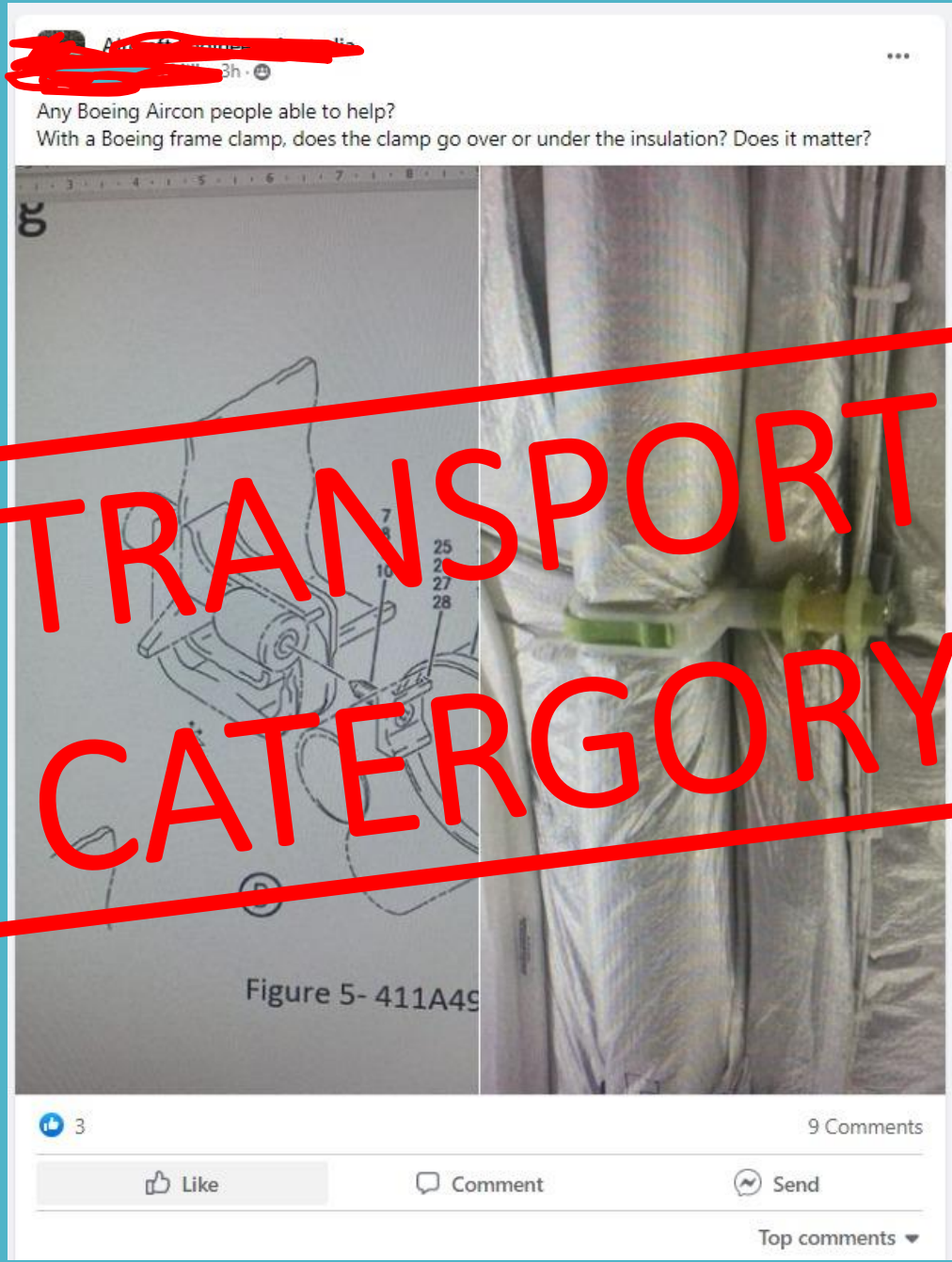
Erika's Post

~~XXXXXXXXXX~~
2d · 🌐

Looking for a part number/potential causes/advice:
This is the front bulkhead inside the spinner of my [REDACTED] -- one of the nut plates? Rivnuts? broke off.
1) Does anyone know the part number for this and the rivets?
2) Any thoughts why this would happen?
3) Any thoughts about whether it is easier to replace the bulkhead or just the nut? We have a second one cracking as well.

Have reached out to A&P and [REDACTED] but checking here in parallel while I wait for them to get back to me









COMMUNICATION OF MAINTENANCE ISSUES

Home > Maintenance > Airworthiness Notices

Airworthiness Notices

Publication Title	Summary	Publication Date
AN221208-2 Issue 1 Download Document (DOC  84 kb)	Non-compulsory inspection of plastic fuel lines	1 Jan 2009
Information notice: TruTrak autopilot servo arm screws Download Document (DOC  533 kb)	Information notice: TruTrak autopilot servo arm screws	8 Dec 2008
CASA AWB27-005 Download Document (DOC  61 kb) Download Document (PDF  27 kb)	Applicable to plastic two-part detachable flight control column hand-grips installed in aircraft. To alert maintainers and operators to check for any detectable looseness between the control column and the grip. This may indicate failure of the plastic mating halves and/or attaching hardware.	11 Sep 2008
CAA AN200808-11-03	Compulsory installation of manifold	20 Aug 2008

Airworthiness Notices

Aircraft Document Research Service

COMMUNICATION OF MAINTENANCE ISSUES

Please
cont
lock o

Here is the fix.

Please

Here is



The screw in the photo is secured with both locktite and safety wire.

I used a MS24677-14 which is a socket head cap screw with a drilled head in place of the original screw. I had to use three washers because of the length of the screw. A MS35265-41 1/4 in filister head screw would be a better choice, but I couldn't find one locally.

I discussed the situation with TruTrak this morning, and Lucas said that they would be investigating the problem.

Pat

COMMUNICATION OF MAINTENANCE ISSUES

The screenshot shows the BendixKing website for the xCruze for Experimental Aircraft. The navigation bar includes links for Markets, Products, Services, Contact, Support, and Dealer Sign In. The breadcrumb trail is Autopilots & Indicators / xCruze. The main heading is "xCruze for Experimental Aircraft" with a sub-heading "xCruze 100/110 Autopilot for Experimental Aircraft". There are social media icons for Facebook, Twitter, LinkedIn, and YouTube. Below the heading are tabs for Overview, Specifications, and Resources. A blue underline is under the Overview tab. The main content area features a photograph of three BendixKing autopilot units. To the right of the photo is a text block describing the xCruze 100 as an affordable and flexible digital autopilot system. A large red stamp with the text "ACQUIRED 2019" is overlaid on the right side of the page. Below the photo, the text "TruTrak is now a part of BendixKing" is displayed.

Autopilots & Indicators / xCruze

xCruze for Experimental Aircraft

xCruze 100/110 Autopilot for Experimental Aircraft



Overview Specifications Resources



The xCruze 100 is an affordable and flexible digital autopilot system for the experimental aircraft cockpit. Designed to interface with popular experimental EFIS solutions, the xCruze 100 provides a seamless integration with the xVue Touch as well as a variety of other manufacturers.

ACQUIRED 2019

TruTrak is now a part of BendixKing

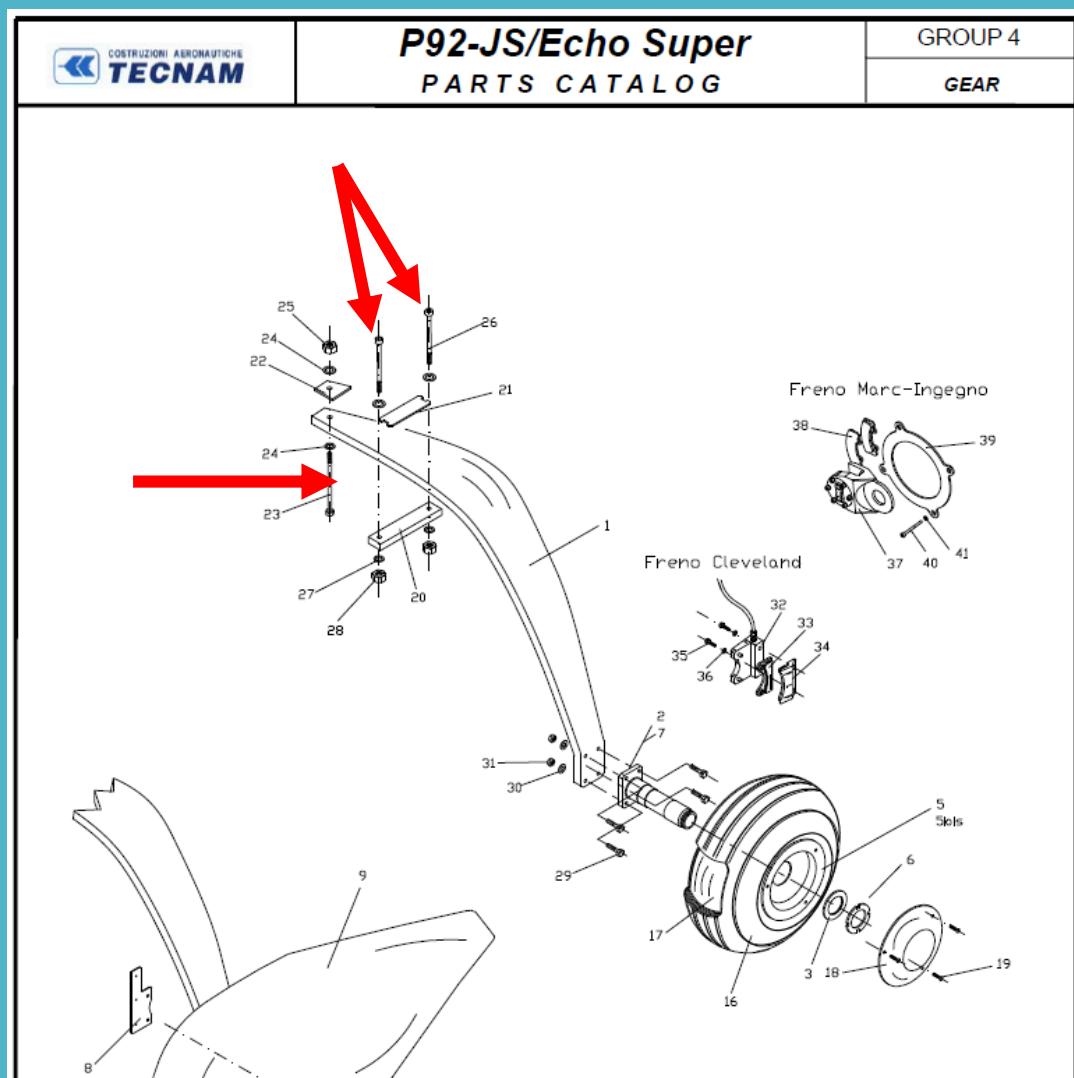
COMMUNICATION OF MAINTENANCE ISSUES

Task ID XXXXXXXXXX	When was defect detected? On Ground	ATA Chapter 22: AUTO-FLIGHT	ATA Subchapter [Redacted]														
Auto pilot not operational in pitch			<table border="1"> <tr> <td>ARN:</td> <td>XXXXXXXXXX</td> </tr> <tr> <td>NAME:</td> <td>XXXXXXXXXX</td> </tr> <tr> <td>TTAF:</td> <td>8439.0</td> </tr> <tr> <td>DATE:</td> <td>2 Nov 2019</td> </tr> <tr> <td>TIME:</td> <td>09:08</td> </tr> </table>	ARN:	XXXXXXXXXX	NAME:	XXXXXXXXXX	TTAF:	8439.0	DATE:	2 Nov 2019	TIME:	09:08				
ARN:	XXXXXXXXXX																
NAME:	XXXXXXXXXX																
TTAF:	8439.0																
DATE:	2 Nov 2019																
TIME:	09:08																
RESOLUTION																	
<div style="border: 2px solid red; border-radius: 15px; padding: 10px; text-align: center; color: red; font-weight: bold; font-size: 1.2em;"> REPAIRED IAW WHAT PAT WROTE ON THE SAAA FORUM </div>			<table border="1"> <tr> <td>ARN:</td> <td>XXXXXXXXXX</td> </tr> <tr> <td>NAME:</td> <td>XXXXXXXXXX</td> </tr> <tr> <td>CERT. DATE:</td> <td>2 Nov 2019</td> </tr> <tr> <td>CERT. TIME:</td> <td>09:14</td> </tr> <tr> <td>TTAF:</td> <td>8439.0</td> </tr> <tr> <td>AMO Approval:</td> <td>05082</td> </tr> <tr> <td>Log Book:</td> <td>aircraft, propeller</td> </tr> </table>	ARN:	XXXXXXXXXX	NAME:	XXXXXXXXXX	CERT. DATE:	2 Nov 2019	CERT. TIME:	09:14	TTAF:	8439.0	AMO Approval:	05082	Log Book:	aircraft, propeller
ARN:	XXXXXXXXXX																
NAME:	XXXXXXXXXX																
CERT. DATE:	2 Nov 2019																
CERT. TIME:	09:14																
TTAF:	8439.0																
AMO Approval:	05082																
Log Book:	aircraft, propeller																

TECNAM STRUCTURAL CORROSION



TECNAM STRUCTURAL CORROSION

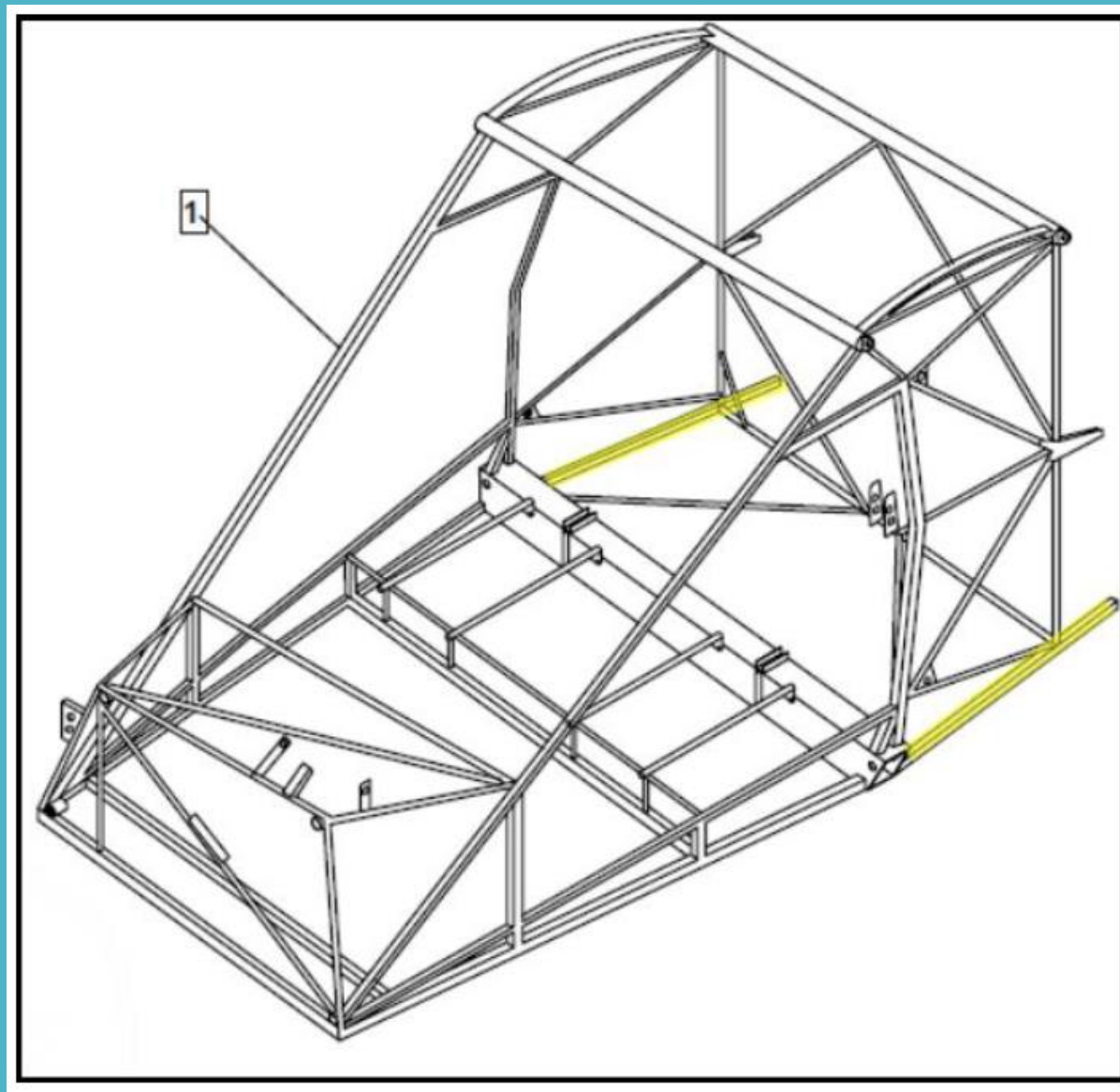


20	21-8-210-1	LEAF SPRING CLAMP PLATE	2
21	92-8-206-3	LEATHER SHIM	2
22	92-8-205-1	SPACER SHIM (ALI)	2
23	UNI5737-D8L60	HEX SOCKET HEAD BOLT M8 CR8.8 L=60 MM	6
24	UNI6592-D8	FLAT WASHER D=8	12
25	UNI7473-D8	SELF LOCKING NUT M8	6
26	UNI5737-D6L39	BOLT T.E. M6.35 CR8.8 L=39 MM	8
27	UNI6592-D6	FLAT WASHER D=6	8
28	UNI7473-D6	SELF LOCKING NUT M6.35	8
29		BOLT T.E.	4
30		WASHER	4
31		NUT	4

TECNAM STRUCTURAL CORROSION



TECNAM STRUCTURAL CORROSION



TECNAM STRUCTURAL CORROSION

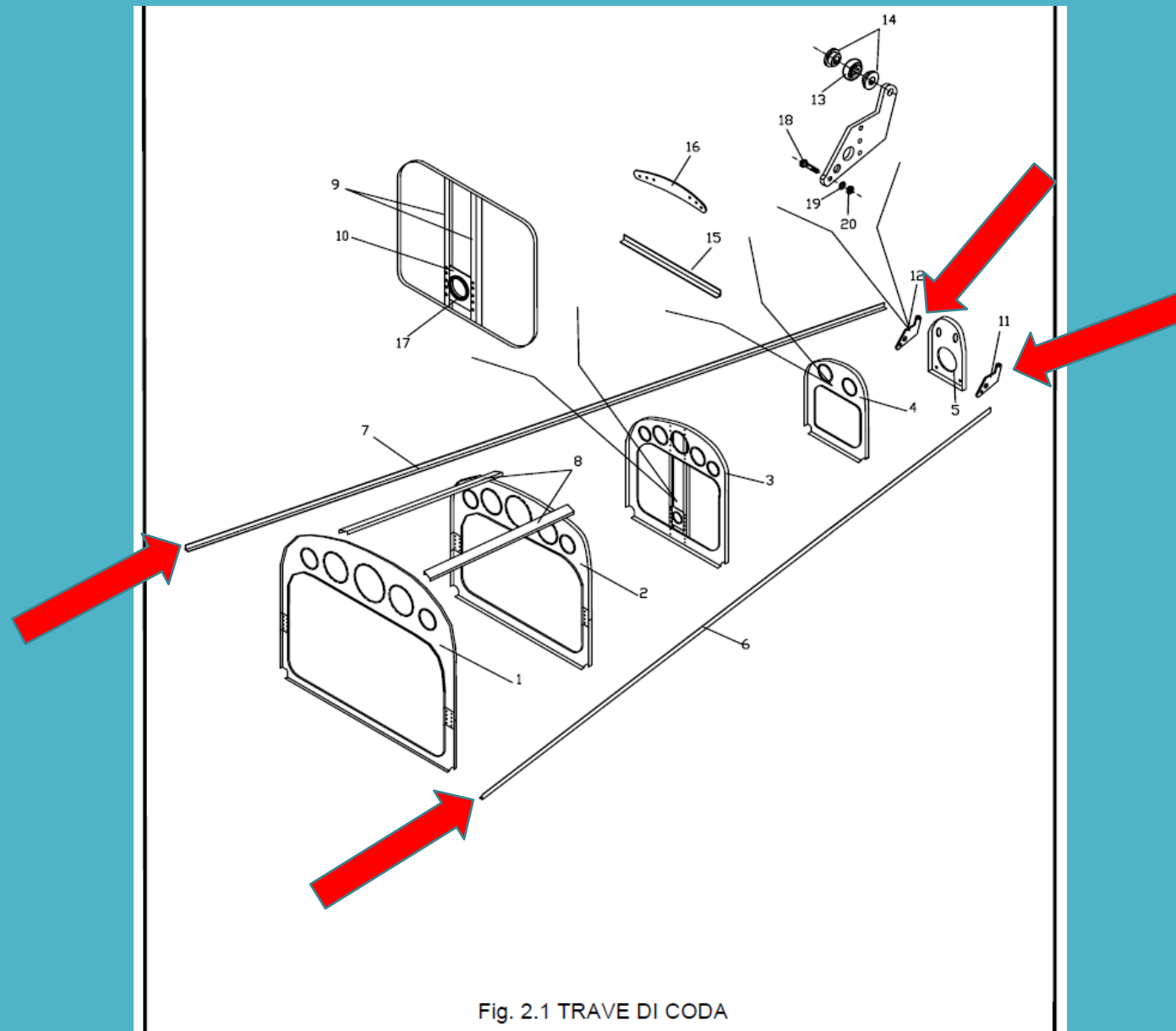
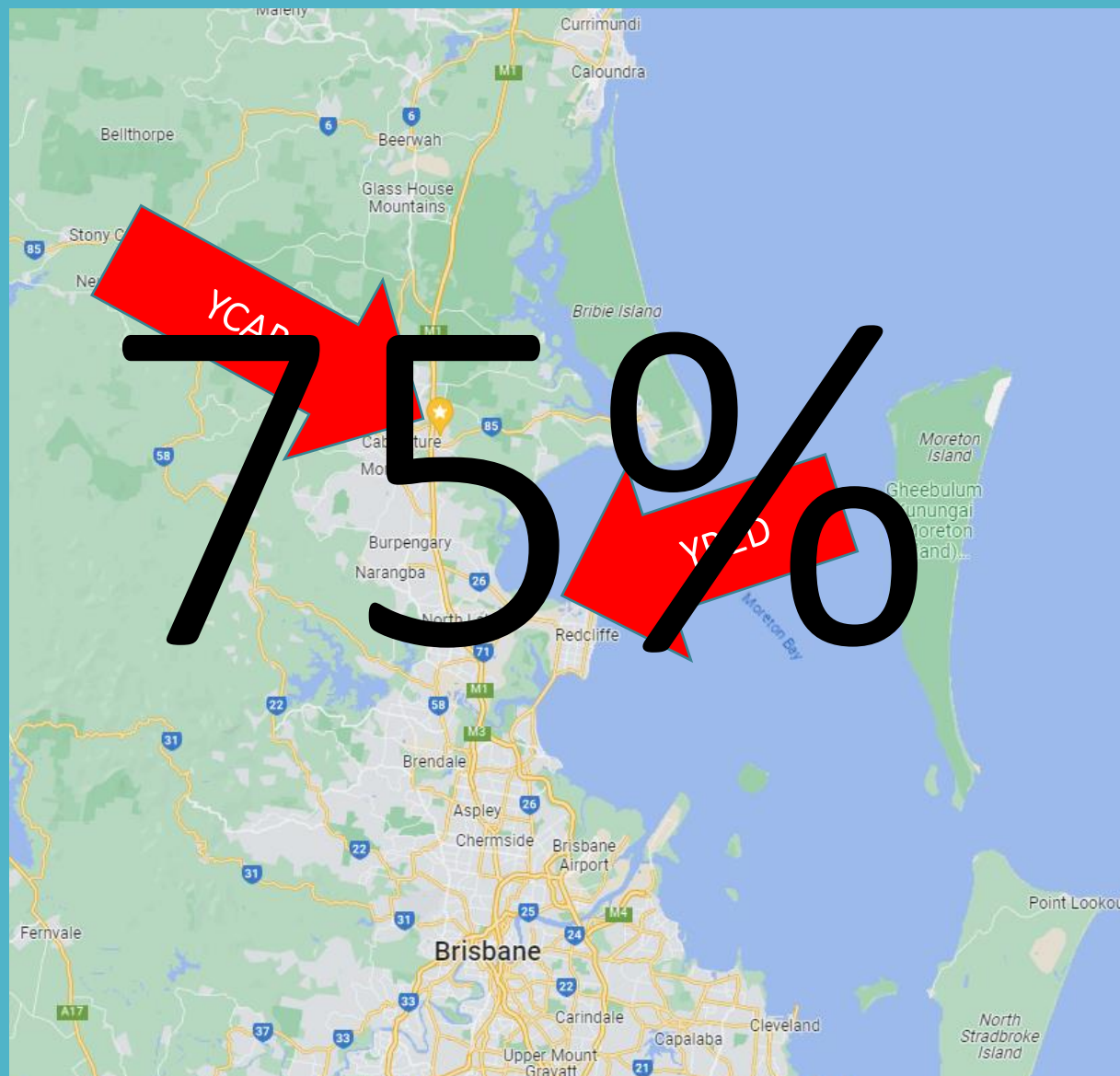


Fig. 2.1 TRAVE DI CODA

TECNAM STRUCTURAL CORROSION



TECNAM STRUCTURAL CORROSION



TECNAM STRUCTURAL CORROSION

RAAus

Reported via OMS

TECNAM

Communicated with local distributor

CASA

TALK TO RAAUs

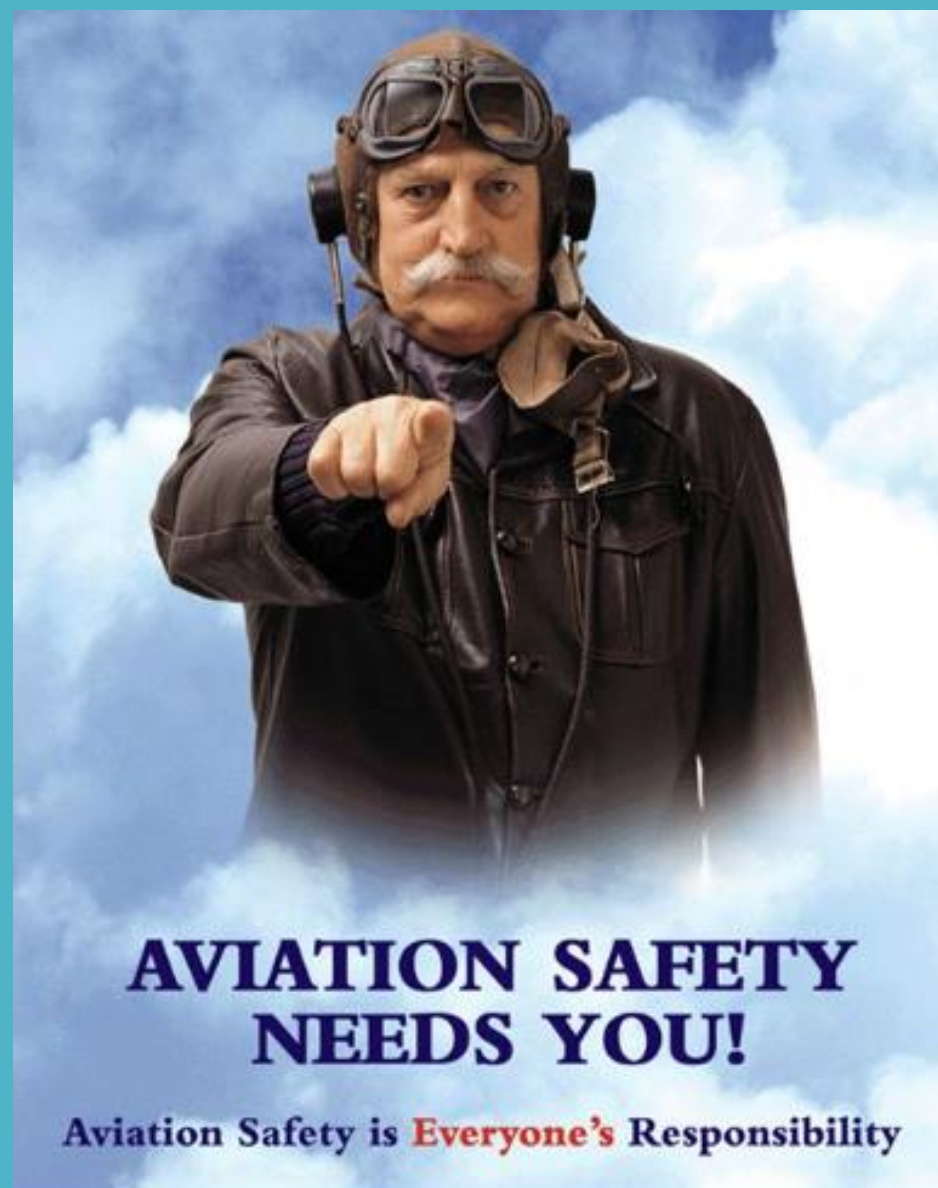
IT'S HARD TO DO THE RIGHT THING

#ITSHARDTODOTHE RIGHTTHING

SOCIAL MEDIA IS HERE TO STAY – EMBRACE IT

HUMANS WILL ALWAYS LOOK FOR THE EASIEST ROUTE

IT'S HARD TO DO THE RIGHT THING



**AVIATION SAFETY
NEEDS YOU!**

Aviation Safety is **Everyone's** Responsibility

DECISION TIME



A – CAR30 LAME

B – RESEARCH MANUFACTURERS DATA

C – ASK A FRIEND

UN-INFORMED
OWNER/MAINTAINER

DECISION TIME

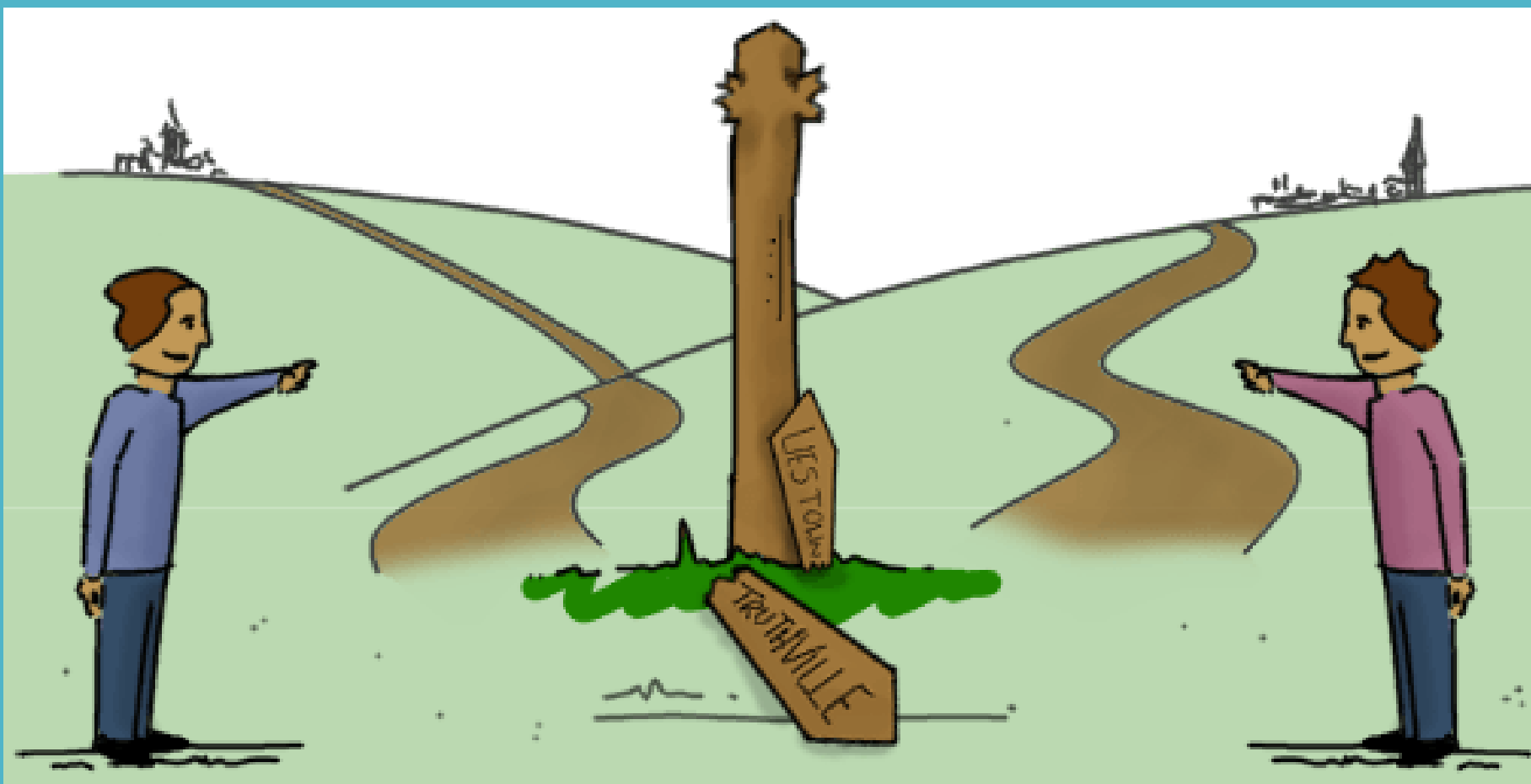
Social Media
solution

Tried & Proven
System



DECISION TIME

Safety Circle Breakdown – WHO IS MAINTAINING THE SIGNPOSTS?



RED ALERT

CONFIRMATION BIAS

TRUST BUT VERIFY

THE BUBBLE FILTER

This applies to Google search results too!



Don't be this person



CHAINSAWSUIT.COM

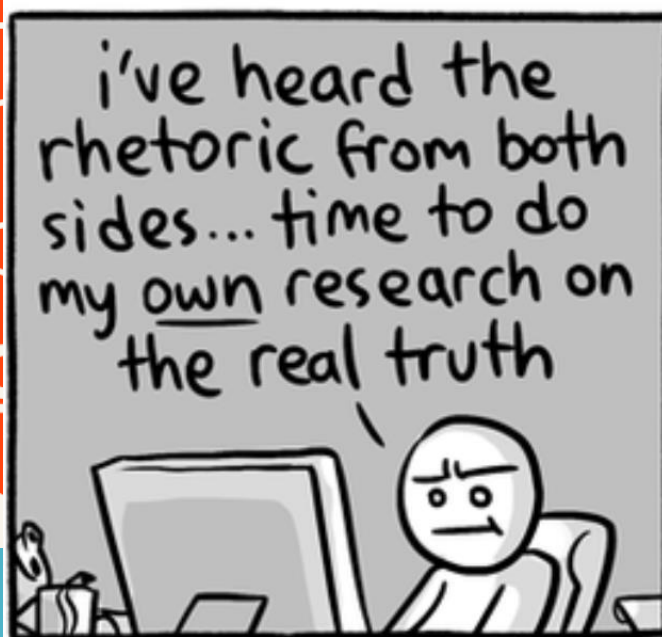


Image from Chainsawsuit by Kris Straub

tecnamtalk.proboards.com/board/4/maintenance-shop

Tecnam Talk

Home Help Search Welcome Guest. Please [Login](#) or [Register](#).

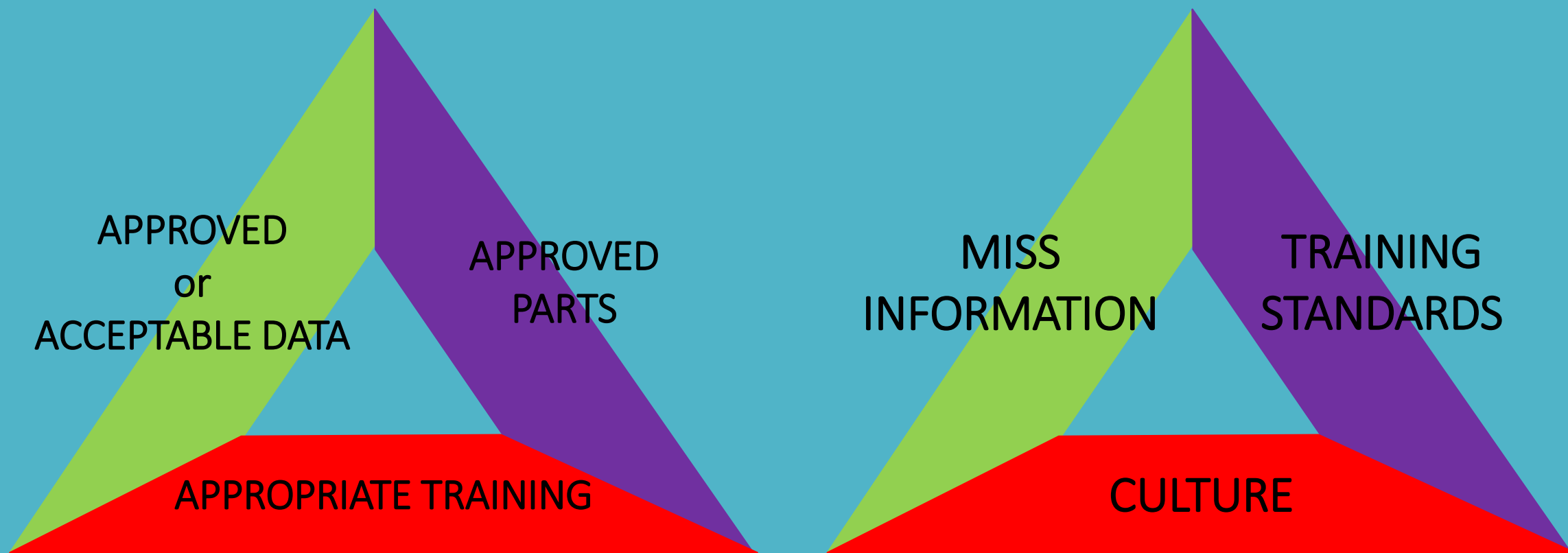
Tecnam Talk > Tecnam Forum > Maintenance Shop >

Maintenance Shop Create Thread

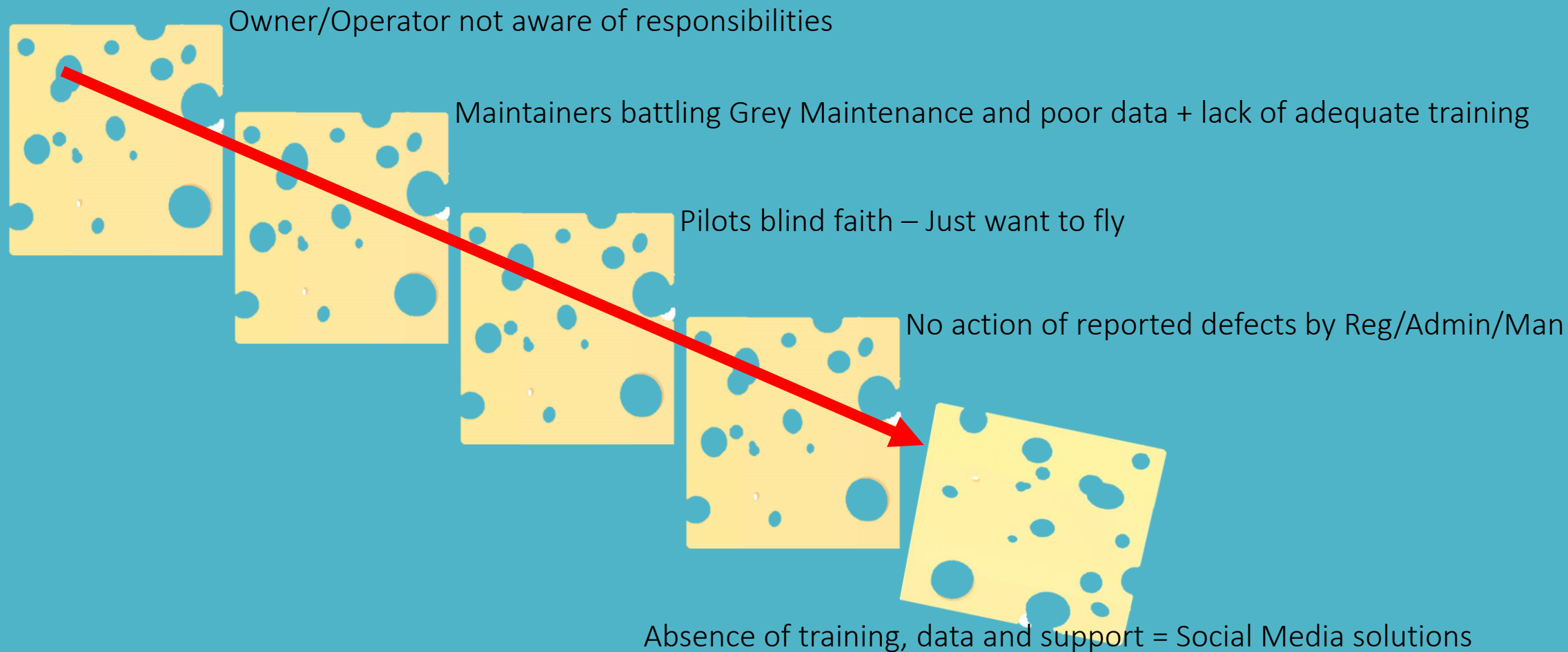
« Prev **1** 2 3 4 5 6 Next » Select Search...

	Subject	Created By	Replies	Views	Last Post
	Do your foot supports flex?	CalmBlueSkies	0	18	by CalmBlueSkies Jun 1, 2023 at 11:45am
	What should be the RPM at 100% power in cruise climb?	CalmBlueSkies	0	10	by CalmBlueSkies Jun 1, 2023 at 11:44am
	Rotax 912 Annual & 100 Hour Enhanced Service Class	dand	0	26	by dand May 24, 2023 at 2:57am
	Wheel Fairing Screw	Flocker	6	72	by ChiMike May 15, 2023 at 11:42am
	Brake Line Retaining Tape	Flocker	3	65	by technammech May 11, 2023 at 2:41am
	Any way to keep baggage door open?	CalmBlueSkies	3	43	by Flocker May 9, 2023 at 12:23am
	How do I convert Tecnam's paint code?	CalmBlueSkies	3	75	by CalmBlueSkies May 6, 2023 at 10:27am
	What is this big knob under the plane?	CalmBlueSkies	6	92	by LSA Flyer May 2, 2023 at 1:37pm

CONTRIBUTORS TO LOSS OF MAINTENANCE SYSTEM INTEGRITY



SWISS CHEESE ROULETTE



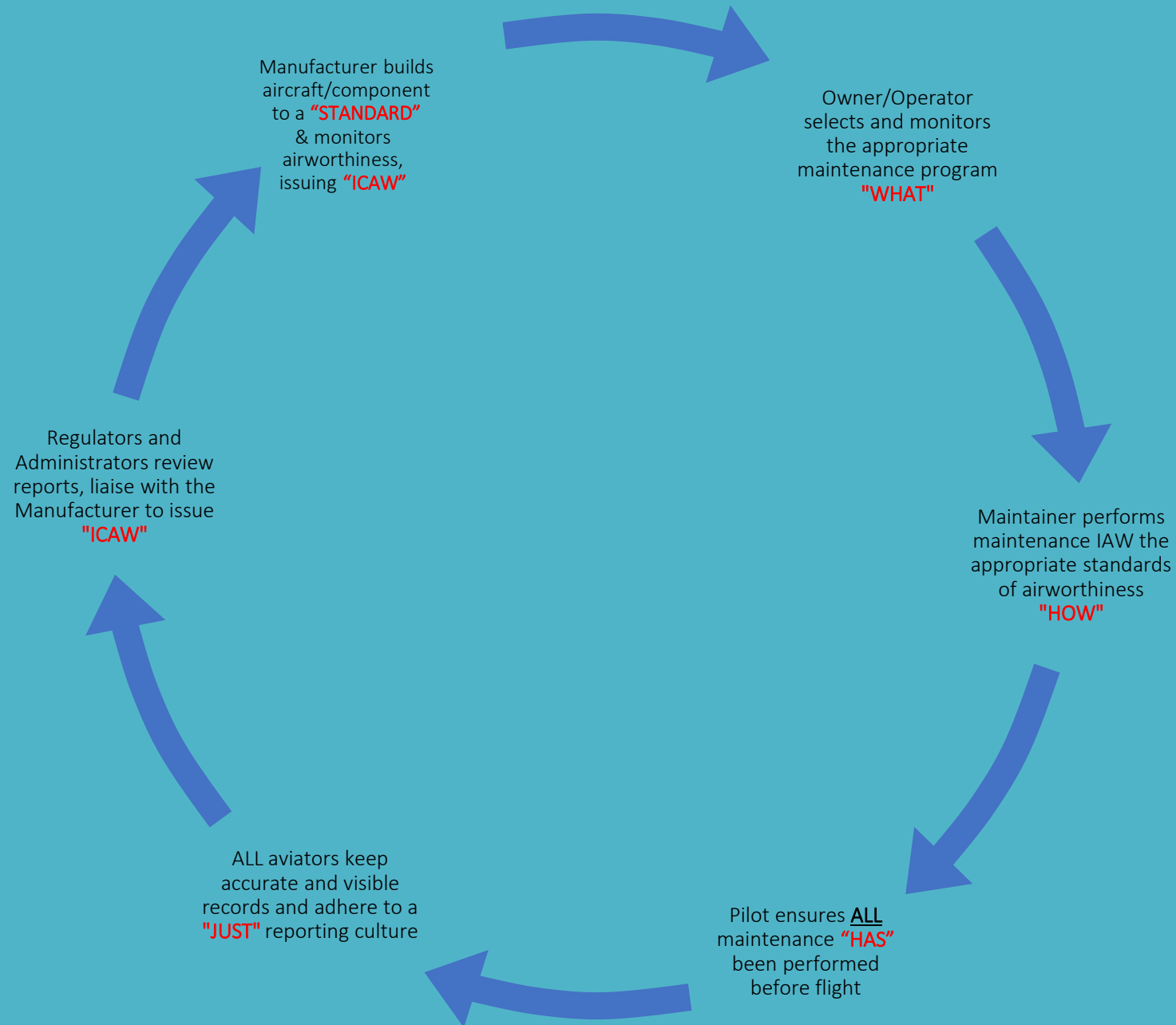
DON'T BRING PROBLEMS – BRING SOLUTIONS

OVERSIGHT

of all parts of the
Maintenance Safety Circle

Simply do the job
everyone is
supposed to do.

MAINTENANCE SAFETY CIRCLE



DON'T BRING PROBLEMS – BRING SOLUTIONS

OVERSIGHT

of all parts of the
Maintenance Safety Circle

Simply do the job
everyone is
supposed to do.

CAMO

For GA and RA

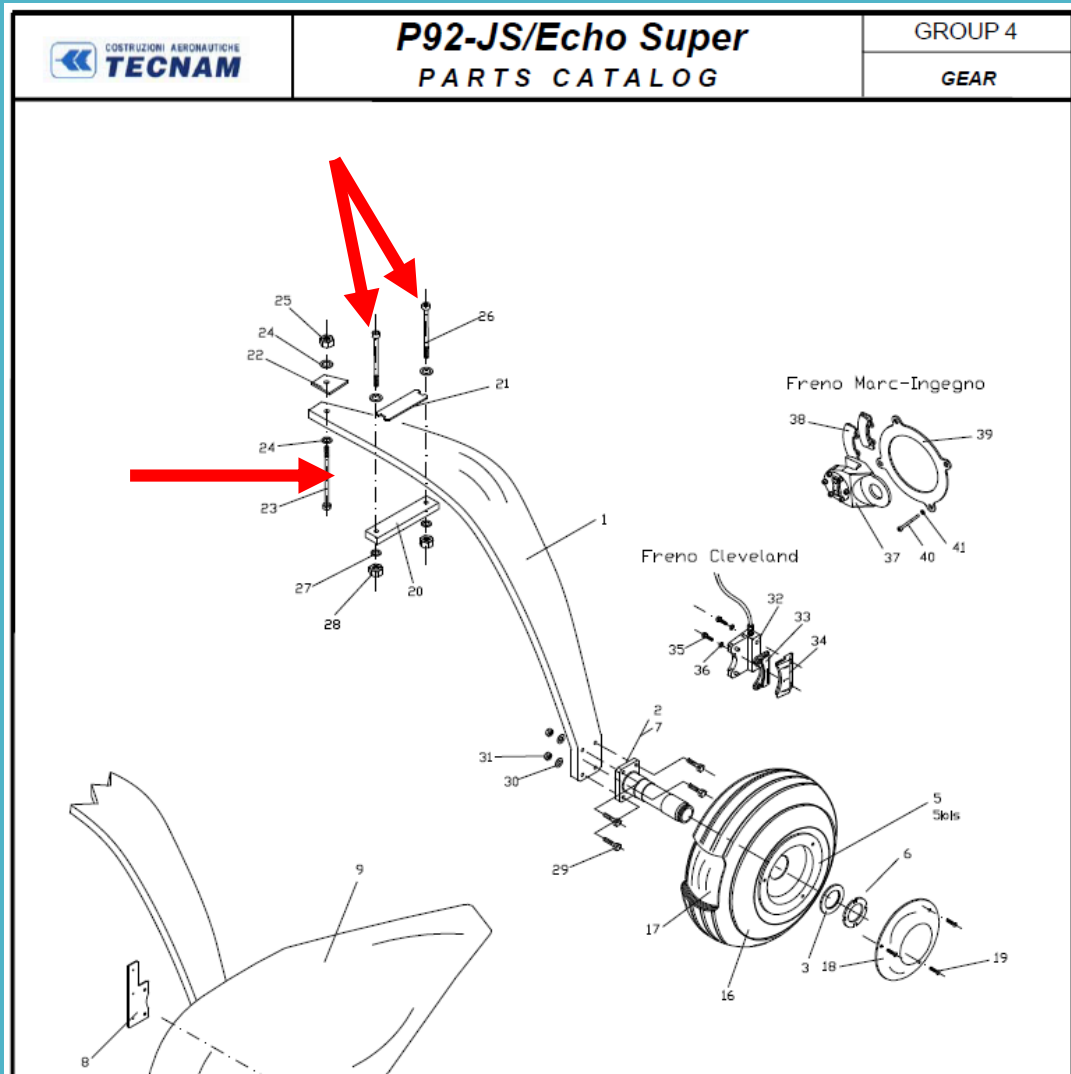
Cost, Culture
and
Desire.

QUESTIONS

TECNAM STRUCTURAL CORROSION



TECNAM STRUCTURAL CORROSION



GROUP 4	GEAR		
20	21-8-210-1	LEAF SPRING CLAMP PLATE	2
21	92-8-206-3	LEATHER SHIM	2
22	92-8-205-1	SPACER SHIM (ALI)	2
23	UNI5737-D8L60	HEX SOCKET HEAD BOLT M8 CR8.8 L=60 MM	6
24	UNI6592-D8	FLAT WASHER D=8	12
25	UNI7473-D8	SELF LOCKING NUT M8	6
26	UNI5737-D6L39	BOLT T.E. M6.35 CR8.8 L=39 MM	8
27	UNI6592-D6	FLAT WASHER D=6	8
28	UNI7473-D6	SELF LOCKING NUT M6.35	8
29		BOLT T.E.	4
30		WASHER	4
31		NUT	4

TECNAM STRUCTURAL CORROSION



LSA SERVICING BULLETIN

N° P92/001

N° P2004/001

page 1 of 1

Information	<input type="checkbox"/>	Recommendation	<input type="checkbox"/>	Mandatory	<input checked="" type="checkbox"/>
DATE ISSUED	August 7, 2007				
DATE EFFECTIVE	August 7, 2007				
SCOPE	TECNAM LSA airplanes models: P92 Echo Super – P2004 Bravo				
SUBJECT	Landing Gear attachment bolts				

DISCUSSION:

A US flight training school LSA aircraft P92 Echo Super had an incident where the landing gear leg folded back under braking as the aircraft was rolling out after landing. The possible cause is the incorrect torque value of the interested bolt or a defective bolt.

During the inspection of the aluminium alloy clamp an ovality was found in the attachment bolt hole: although this ovality is normal in order to permit some accommodation during the assembly.

APPLICABILITY:

TECNAM LSA airplanes models:

- P92 Echo Super
- P2004 Bravo

CORRECTIVE ACTION:

At the next service interval or within the next ten hours of flying, a LSA mechanic, A&P mechanic, FAA Repair Station, or an authorized factory representative must inspect the landing gear attachment bolts.

The visual inspection includes:

- Attachment bolts (inspect the conditions and the torque value - 24.6Nm – 217lb in)
- Aluminium alloy clamp inspection for deformation or cracks;

If the bolts must be replaced, please request to your TECNAM dealer the following P/N:

P/N	Description	Q.ty
MS20005-24	Attachment bolts	4
MS21042-5	Self-locking nut	4
MS20002C5	Countershank washer	4
MS20002-5	Plain washer	(as required, 4 min.)

DO	OoA	HDO
Design Office	Office of Airworthiness	Head of Design Organization
Prepared	Document release Approval of the whole modification Compliance C.L.	Declaration of Compliance
Mr. Fabio Russo	Mr. Michele Oliva	Mr. Luigi Pascale Langer

If the bolts must be replaced, please request to your TECNAM dealer the following P/N:

P/N	Description	Q.ty
MS20005-24	Attachment bolts	4
MS21042-5	Self-locking nut	4
MS20002C5	Countershank washer	4
MS20002-5	Plain washer	(as required, 4 min.)



TECNAM STRUCTURAL CORROSION



LSA SERVICING BULLETIN

N° P92/001

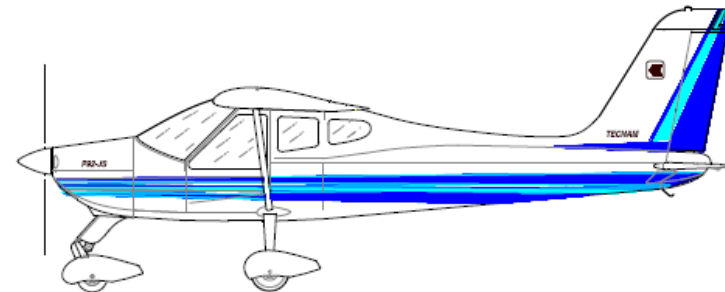
N° P2004/001

page 1 of 1

Information	<input type="checkbox"/>	Recommendation	<input type="checkbox"/>	Mandatory	<input checked="" type="checkbox"/>
DATE ISSUED		August 7, 2007			
DATE EFFECTIVE		August 7, 2007			
SCOPE		TECNAM LSA airplanes models: P92 Echo Super – P2004 Bravo			
SUBJECT		Landing Gear attachment bolts			

ILLUSTRATED PARTS CATALOG

P92 - JS & Echo Super



Doc. 92/65 Ed:1 Revision:3
February 2009

TECNAM STRUCTURAL CORROSION



SERVICE BULLETIN

N°18-LSA

Date: 12th September 2011

Rev. 2 of 13th September 2011

page 4 of 11

3. MLG nuts substitution

Replace the laterals and central nuts according to following figure 2 and applying the torque values indicated in table 1:

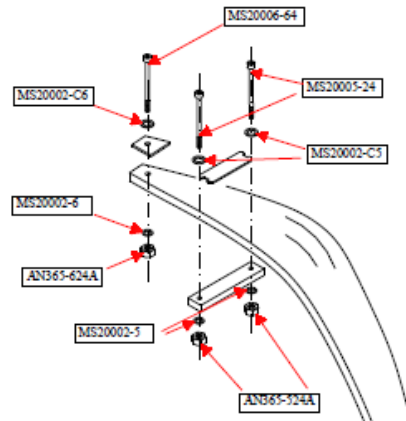


Figure 2. MLG leg attachment

Description	Part number	QTY	Torque value
Central bolts	MS20006-64	2	//
Lateral bolts	MS20005-24	4	//
Stop nut for lateral bolts	AN365-524A	4	15 +/- 1 Nm
Stop nut for central bolts	AN365-624A	2	25 +/- 2 Nm
Washer under Lateral bolts	MS20002C-5	4	//
Washer under Central bolts	MS20002C-6	2	//
Washer under Lateral Stop Nuts	MS20002-5	4	//
Washer under Central Stop Nut	MS20002-6	2	//

Table 1

NOTE

To avoid a main landing leg detachment from the fuselage Tecnam recommend that the nuts must be replaced one at a time and the correct torque value must be applied at end of all nuts installation.


Description	Part number	QTY	Torque value
Central bolts	MS20006-64	2	//
Lateral bolts	MS20005-24	4	//
Stop nut for lateral bolts	AN365-524A	4	15 +/- 1 Nm
Stop nut for central bolts	AN365-624A	2	25 +/- 2 Nm
Washer under Lateral bolts	MS20002C-5	4	//
Washer under Central bolts	MS20002C-6	2	//
Washer under Lateral Stop Nuts	MS20002-5	4	//
Washer under Central Stop Nut	MS20002-6	2	//

Table 1

NOTE

To avoid a main landing leg detachment from the fuselage Tecnam recommend that the nuts must be replaced one at a time and the correct torque value must be applied at end of all nuts installation.

TECNAM STRUCTURAL CORROSION

	P92 Echo Super de luxe SERVICE MANUAL		Section B
			INSPECTIONS AND SERVICING
<i>TYPE OF INSPECTION</i>		<i>INSPECTION INTERVAL (HOURS)</i>	
		100	Special
MAIN GEAR			
1	Check brake system (tank, pump, pipes and calipers)	●	
2	Replace brake pads		600(a)
3	Check at sight leaf spring force struts, connection tie and clamping pivot	●	
4	Remove gear struts and check camber and condition		1200
5	Inspect principal wheel for good state and clamping	●	
6	Remove wheels, clean and lubricate bearings		600(b)
7	Integrity fairing and relative attachments <i>(if installed)</i>	●	
<p>(a) When brake pad thickness is below 2.4 mm</p> <p>(b) initially at 100 hours</p>			

TECNAM STRUCTURAL CORROSION



SERVICE BULLETIN

N°17-LSA

Date: 11th August 2011

page 1 of 3

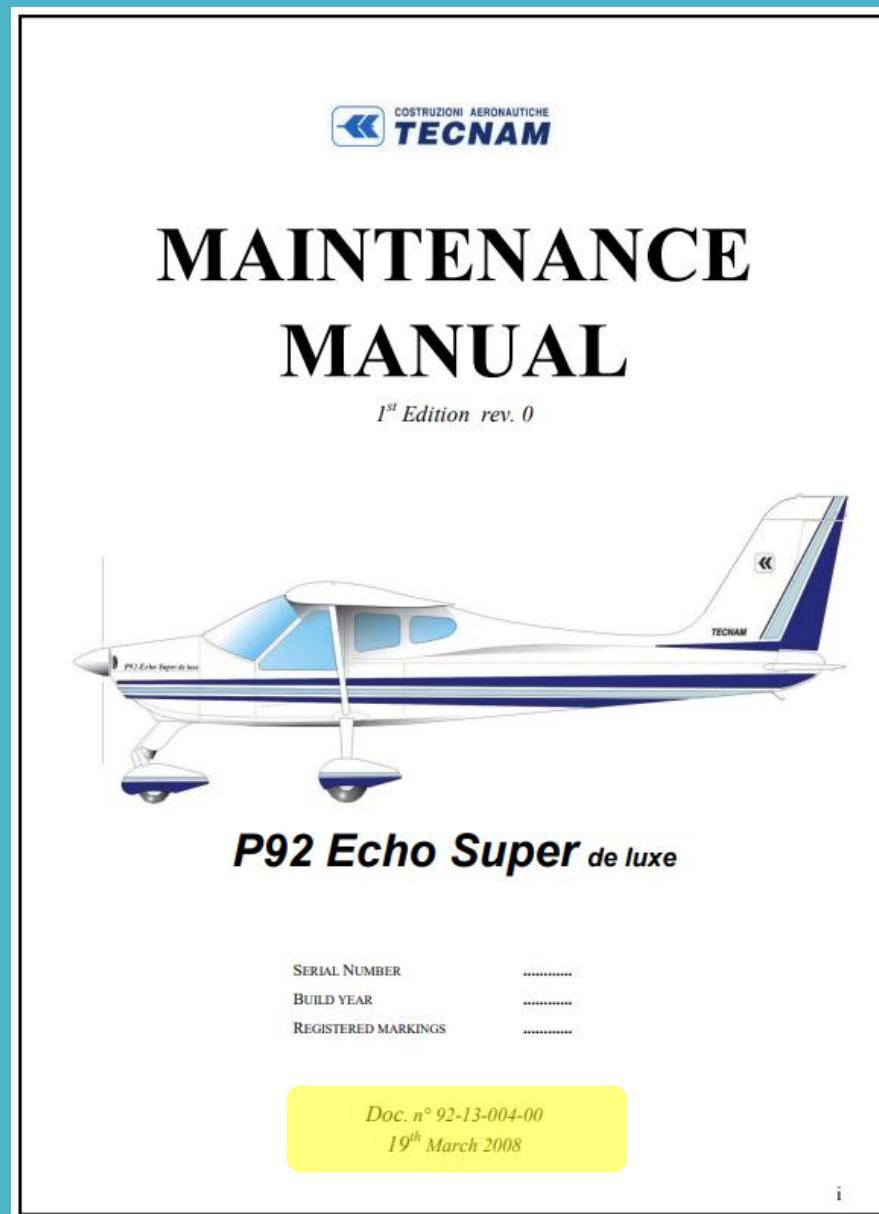
<i>Information</i>	<input type="checkbox"/>	<i>Recommendation</i>	<input checked="" type="checkbox"/>	<i>Mandatory</i>	<input type="checkbox"/>
--------------------	--------------------------	-----------------------	-------------------------------------	------------------	--------------------------

A/C AFFECTED	<i>P2002 (series with fixed gear) all serial numbers P92 (series): all serial numbers P2004 Bravo: all serial numbers</i>
TIME OF COMPLIANCE	<i>Within 10 flight hours if total flight hours less than 100, then every 100hrs</i>
WORKING PLACE	<i>On place.</i>

Subject: *Main landing bolts torque values check*

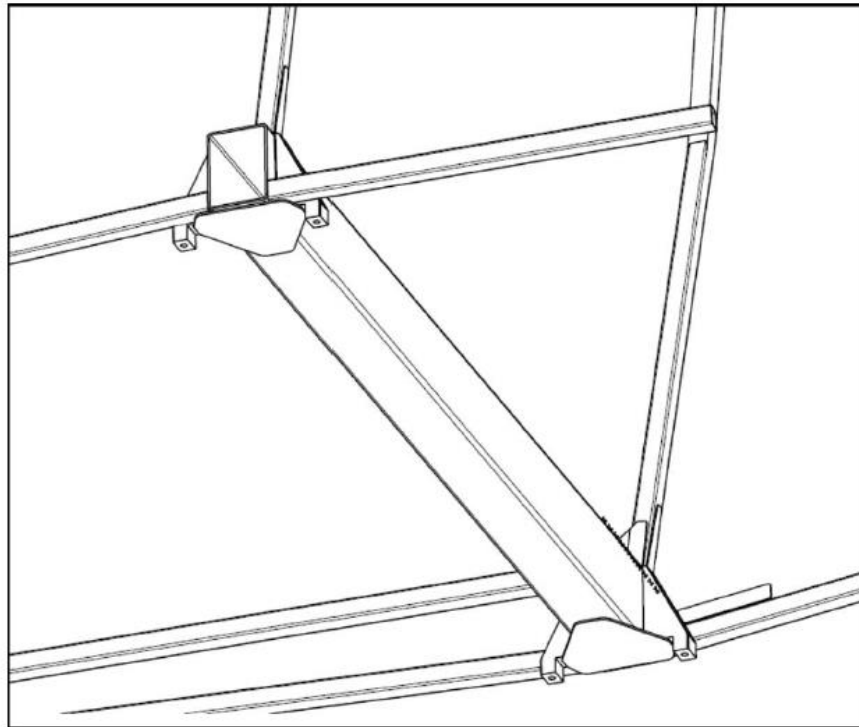
Scope: *In order to ensure a better connection between the main landing gear leaf-springs and the fuselage, it is recommended to perform a torque values check of the MS bolts in time of compliance provided in this bulletin.*

TECNAM STRUCTURAL CORROSION



TECNAM STRUCTURAL CORROSION

9. Locate the interested areas and proceed to install the Support Plate P/N 21-2-1114-1 as shown in the drawings.



TECNAM

7 MONTHS WAIT

RAAUs

OWNER - MANUFACTURER

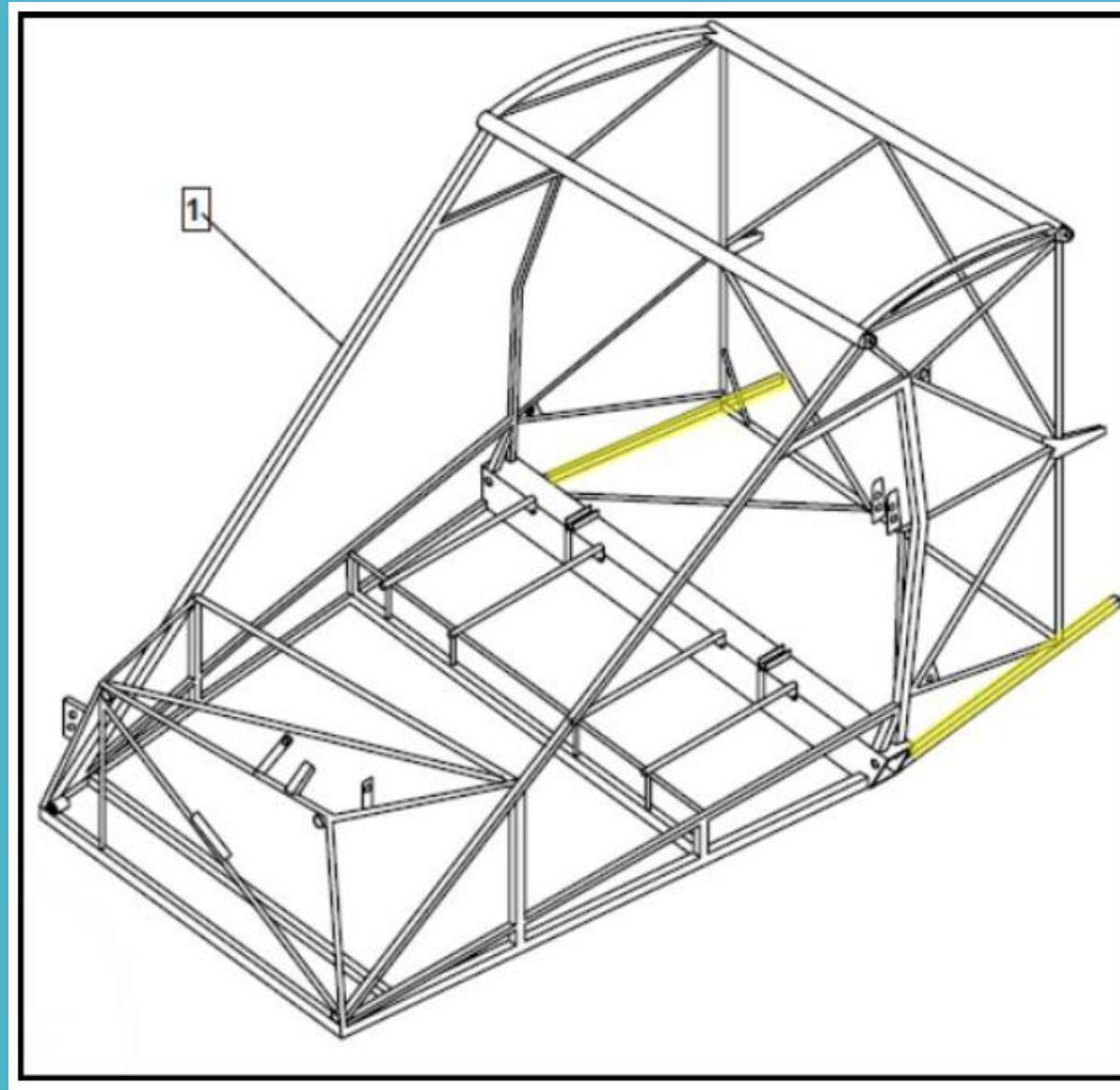
CASA

TALK TO RAAUs

TECNAM STRUCTURAL CORROSION



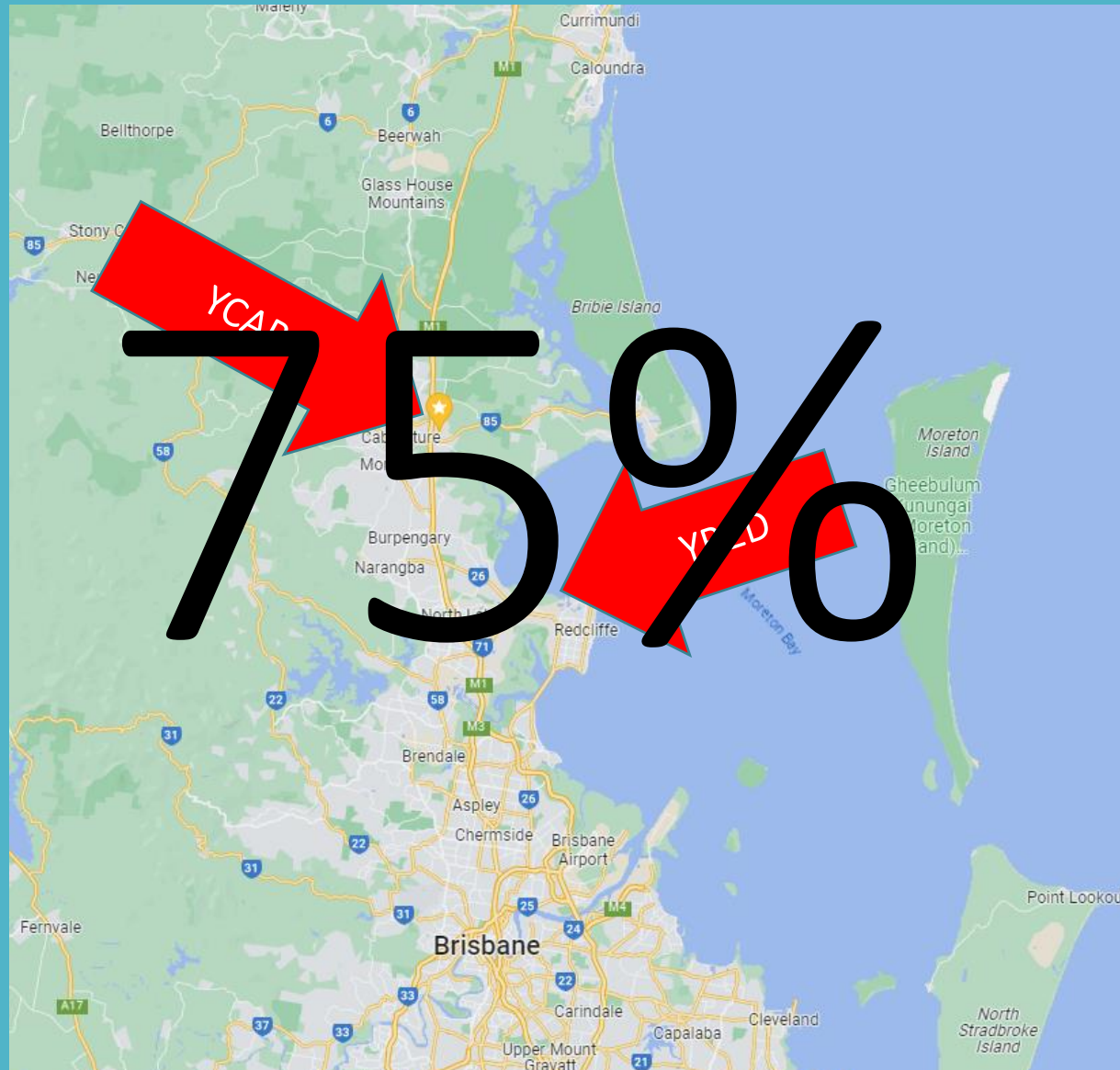
TECNAM STRUCTURAL CORROSION



TECNAM STRUCTURAL CORROSION



TECNAM STRUCTURAL CORROSION



TECNAM STRUCTURAL CORROSION

RAAus

Reported via OMS

TECNAM

Communicated with local distributor

CASA


TALK TO RAAUs


COMMUNICATION OF MAINTENANCE ISSUES




COMMUNICATION OF MAINTENANCE ISSUES


5 DEFECT REPORT AND AIRWORTHINESS NOTICE ADMINISTRATIVE PROCEDURES


5.1 Once the defect report is submitted through the Occurrence Management System the originator will be sent a confirmation of receipt advice. 


5.2 Defect reports will be given a reference number for the originators record and all reports will be reviewed by the RAAus HAM. 


5.3 Every defect report will be reviewed by the RAAus HAM and one or more of the following actions may be taken:

(a) A summary of the defect and its outcome are made available on the RAAus website via the following link <https://www.raa.asn.au/safety/accident-and-defect-summaries/> 

(b) An Airworthiness Notice will be prepared. Samples are available on the RAAus website www.raa.asn.au under Safety – Technical – Airworthiness. Due to the wide nature of possible subjects, individual Airworthiness Notice format may vary but will generally follow the format of Topic – Background Discussion – Action Required. Airworthiness Notices may be published in “Sport Pilot” magazine. Depending on the significance of the defect, copies of Airworthiness Notices may also be forwarded by the HAM to all RAAus registered owners of the aircraft type by mail or via email. 

(c) For other than LSA aircraft, the rectification action specified in the Airworthiness Notice is to be undertaken or arranged to be undertaken by aircraft owners within the period specified in the Notice. 

(d) For LSA Aircraft, as no modifications can be made without Manufacturer’s approval, RAAus will issue the Airworthiness Notice as an advisory to members, and RAAus will also alert the aircraft manufacturer about the defect found, and request they investigate. 

(e) Aircraft/Component manufacturers may be advised of the defect or deficiency and requested to undertake rectification action and advise all known owners of the affected aircraft or component. 

COMMUNICATION OF MAINTENANCE ISSUES

Occurrence Management

Occurrence Number	Occurrence Type	Occurrence Date	Status	Outcome
OCC2923	Defect	29th August 2022	Outcome Approved	STATUS: Under review OCCURRENCE DETAILS SUBMITTED TO RAAUS: Ordered parts from the manufacturer and found parts or critical systems with varying tolerances.
OCC2919	Defect	20th August 2022	Under Investigation	STATUS: Under review OCCURRENCE DETAILS SUBMITTED TO RAAUS: During pre-flight, the windscreen skylight was found to have multiple rivets pulled out of the screen.
OCC2838	Defect	13th June 2022	Under Investigation	STATUS: Under review OCCURRENCE DETAILS SUBMITTED TO RAAUS: Defect: 42 Vortex Generators fell off the aircraft. The remainder were able to be removed with light finger pressure.
OCC2777	Defect	29th March 2022	Assigned For Delegation	
OCC2751	Defect	24th March 2022	Assigned For Investigation	STATUS: Under review EXTRACT FROM REPORT SUBMISSION: The aircraft was found to have a crack in the plastic skylight.
OCC2680	Defect	12th January 2022	Im Review	STATUS: Under review EXTRACT FROM REPORT SUBMISSION: During pre-flight it was noted that where the elevator cable exits the empennage near the horizontal stabilizer, the aircraft skin has rubbed the protective coating from the cable exposing the strands. Nil strands damaged at this stage
OCC2776	Defect	11th January 2022	Under Investigation	STATUS: Under review EXTRACT FROM REPORT SUBMISSION: The lower longerons for the aircraft frame showed signs of corrosion
OCC2668	Defect	18th December 2021	Sm Review	STATUS: Under review EXTRACT FROM REPORT SUBMISSION: During taxi, the aircraft as unable to turn left with full left rudder applied. Found was RH pedal on LH seat binding on the control arm to the stop. They found the rudder significantly off to the RH side when the pedals centralized. Deflections to the right in excess of the movement noted in the AMM allowing the elevator and rudder to come in contact with each other. This movement MAY, in the right conditions, prevent elevator authority due to binding of the elevator on the rudder trim tab assy. Also found the rudder cable tensions too low with only 0.020" lockwire used on turnbuckles (one of which is not of aviation grade). Adjusted rudder control stops to meet AMM requirements of 155 degrees both left and right. Cable tensions set to AMM requirements. Independent inspection carried out and the aircraft was returned to service.

COMMUNICATION OF MAINTENANCE ISSUES

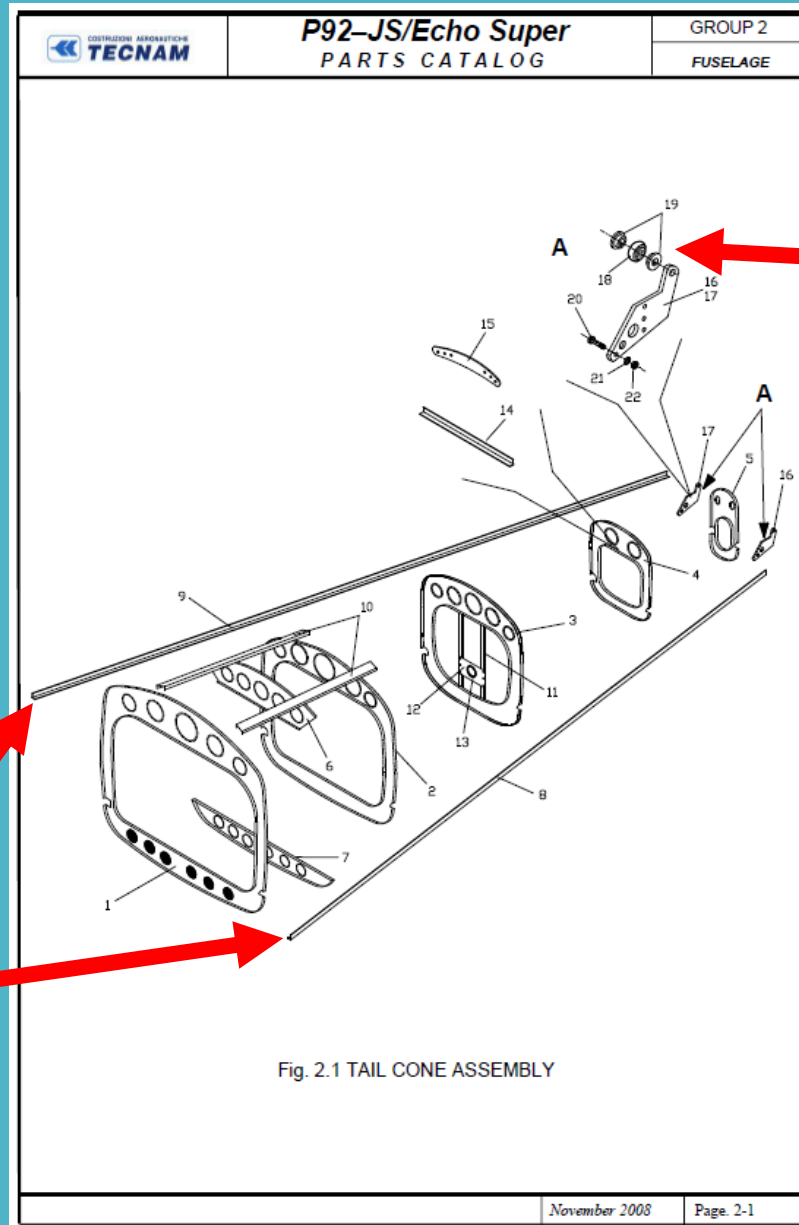
Airworthiness Notices

Publication Title	Summary	Publication Date
AWB 02-066 Issue 1 Maintenance - Aircraft Immersed in Water Download Document (PDF [📄] 104 kb)		18 Mar 2022
Safety Notice - Bristell LSA Download Document (PDF [📄] 116 kb)		19 Feb 2020
EASA Pipistrel AD 2019-0128 Download Document (PDF [📄] 499 kb)	EASA AD 2019-0128 - Pipistrel Virus SW 121 aeroplanes - Seat belt attachment bolts.	6 Jun 2019
Costruzioni Aeronautiche Tecnam P2008 Series Aeroplanes 2018-0072 Download Document (PDF [📄] 210 kb)	After an occurrence report of an engine fire, it was identified that, in some locations on the engine firewall, steel patches that had been attached with use of sealant material had, likely as a result of the fire, detached in the engine compartment. The related technical investigation concluded that more aeroplanes might be affected. This condition, if not detected and corrected, could lead to propagation of an engine fire to other critical areas, possibly resulting in loss of the aeroplane.	28 Mar 2018
TL Ultralight SB 3.S.SI.2017 Download Document (PDF [📄] 3 mb)	Damage to the flap drive torque tube in the fuselage.	18 Jan 2017

Advisory Notices

Publication Title	Summary	Publication Date
Skyreach Bushcat Seat Belt Harness Inspection • RAAus ADN - Bushcat1.pdf [📄] 270 kb]		5 Nov 2021
Safety Notice - Bristell LSA • Safety Notice - Bristell LSA - 20 Feb 2020 (00000002).pdf [📄] 116 kb]		19 Feb 2020
Pipistrel Aircraft SB-162-00-80-006_A00 • SB-162-00-80-006_A00 Fuel pump switch retrofit.pdf [📄] 260 kb]	SB-162-00-80-006_A00 Fuel pump switch retrofit– This is a recommended SB and applies to all ALPHA Trainer LSA aircraft up to and including s/n 958 AT 912 LSA, that do not already have a dedicated fuel pump switch installed in the switch panel.	19 Nov 2019
Pipistrel Aircraft SB-162-00-80-005_A00 • SB-162-00-80-005_A00 Introduction of POH revision B00.pdf [📄] 845 kb]	SB-162-00-80-005_A00 Introduction of POH revision B00– This SB mandates POH replacement and applies to certain AT LSA aircraft (see affected aircraft). Please note that it is a MANDATORY service bulletin.	11 Nov 2019
Zlin Aviation - Mandatory service bulletin • Zlin Safety Alert n.092.pdf [📄] 2 mb]	All Savage Planes and models Visual check for possible sleeves corrosion on all stainless steel wires used for ailerons, rudder, stabilizers (*) flaps controls (*, *) not for Shock Cub and Shock Ultra	20 Aug 2019
Fly Synthesis Texan 550 - Inspection of Nose Gear Steering Plate • RAAus ADN - Texan 550 Nose Gear Steering Plate1.pdf [📄] 660 kb]	An inspection is to be performed before next flight on all aircraft to ensure the steering plate has no free-play on the mounting bolt and nut.	10 May 2019
Aeroprakt SA A22LS-16-(inspection of rudder cables) • SA A22LS-16-(inspection of rudder cables).pdf [📄] 165 kb]		2 Apr 2018

TECNAM STRUCTURAL CORROSION



CYLINDER HEAD COOLANT HOSES

SCHEDULED MAINTENANCE ACTION

IAW

ROTAX 912ULS LMM

5 Year rubber component replacement.
Includes all required Rotax rubber parts

***NOTE:** Airframe maintenance schedule does not specify a life limit for the airframe rubber components*

COOLANT HOSES

IDENTIFIED DEFECT

Airframe replacement rubber parts received from manufacturer were not “Fit for purpose”

COOLANT HOSES

INVESTIGATION

Rubber coolant hoses provided from manufacturer were too large a diameter for the male component

Rubber coolant hoses installation require different size openings at each end.

Rubber coolant hoses provided from manufacturer were identified as Automotive hoses only obtainable from South Africa

Different aviation grade hoses were tested to determine “Form, Fit & Function”

COOLANT HOSES

REPORTING ACTION

RAAus OMS Submission

RESPONSE: NIL

Email to Australian Distributor and the aircraft manufacturer suggesting an AMOC and a recommendation for a Service Bulletin to advise all other owners, maintainers and pilots.

RESPONSE: NIL

COOLANT HOSES

RESOLUTION

1 Owner pestered Aircraft Manufacturer

RESPONSE: LOA for his aircraft only

05/03/2023

LETTER OF APPROVAL [REDACTED] CH213C

This letter serves as an approval for [REDACTED] to use replacement parts as listed in [REDACTED] parts List in the Computer Aided Drawing (CAD) attached to this Letter of Approval for the [REDACTED] Cooling System.

Note: Although these hoses and fittings comply with aviation specs the specific hoses and fittings have not been used/tested by [REDACTED] and [REDACTED] can't be held liable for any incidents etc. which may arise from it including replacements.

BUSHCAT COOLANT HOSES

RESOLUTION

EVERY OTHER BUSHCAT OWNER

Will be blissfully unaware of the problem **UNTIL** they have to deal with the issue themselves.

TECNAM CORROSION



Sharp Wings Photography

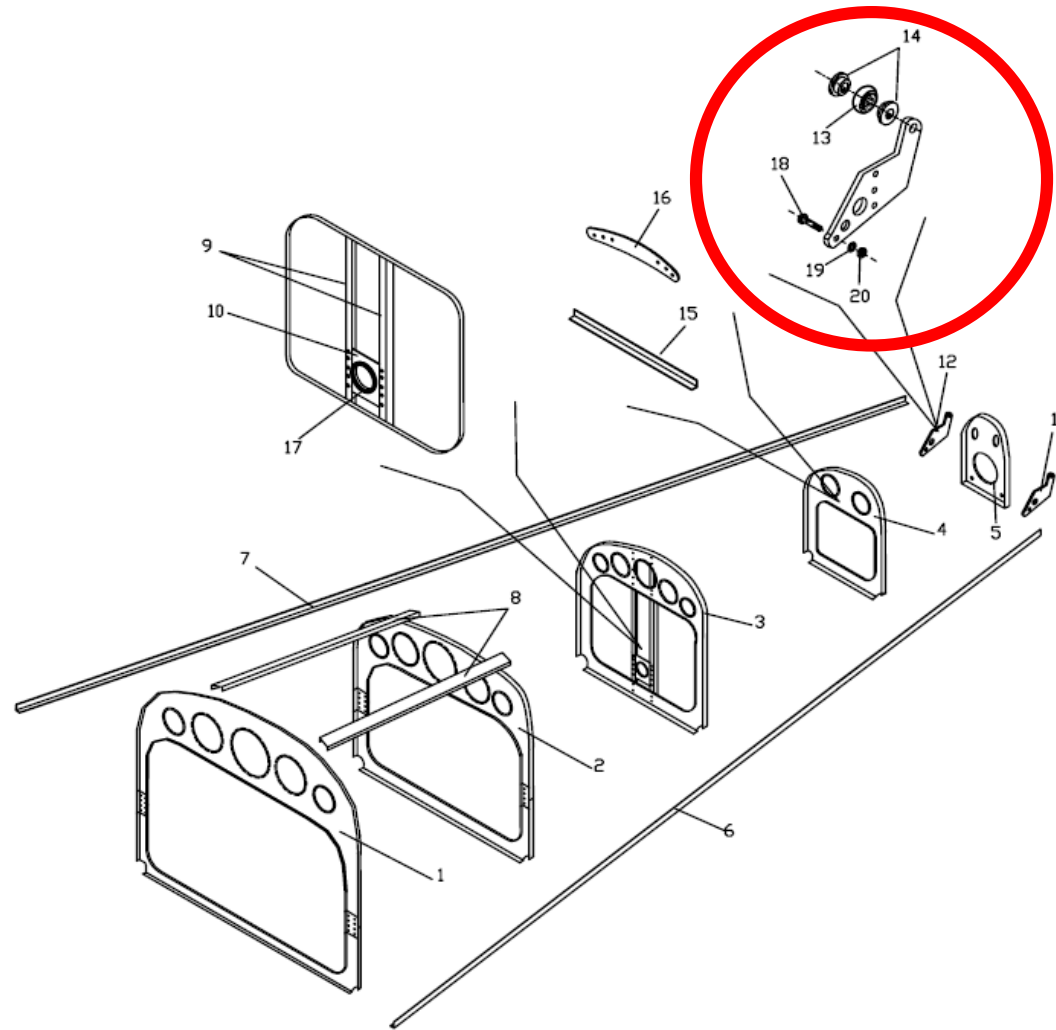
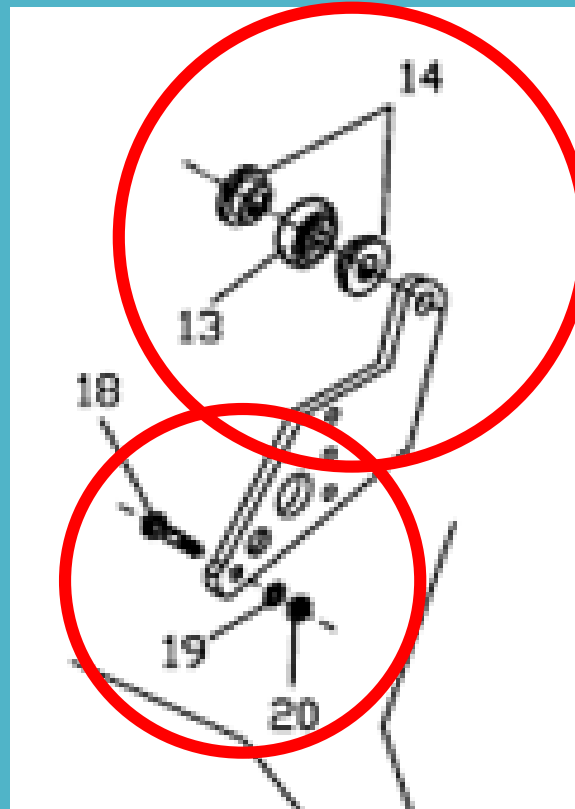


Fig. 2.1 TRAVE DI CODA



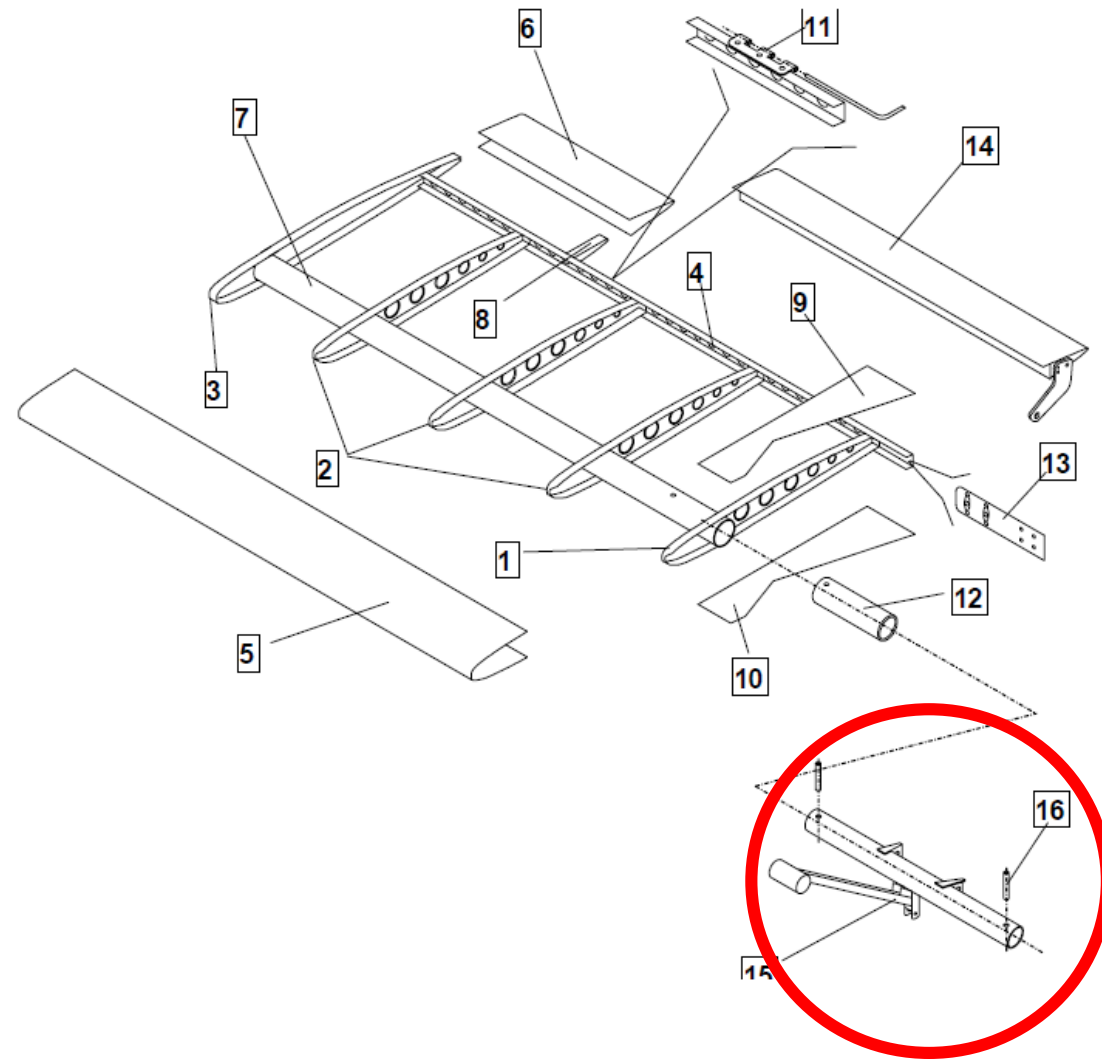


Fig. 3.1 STABILATORE

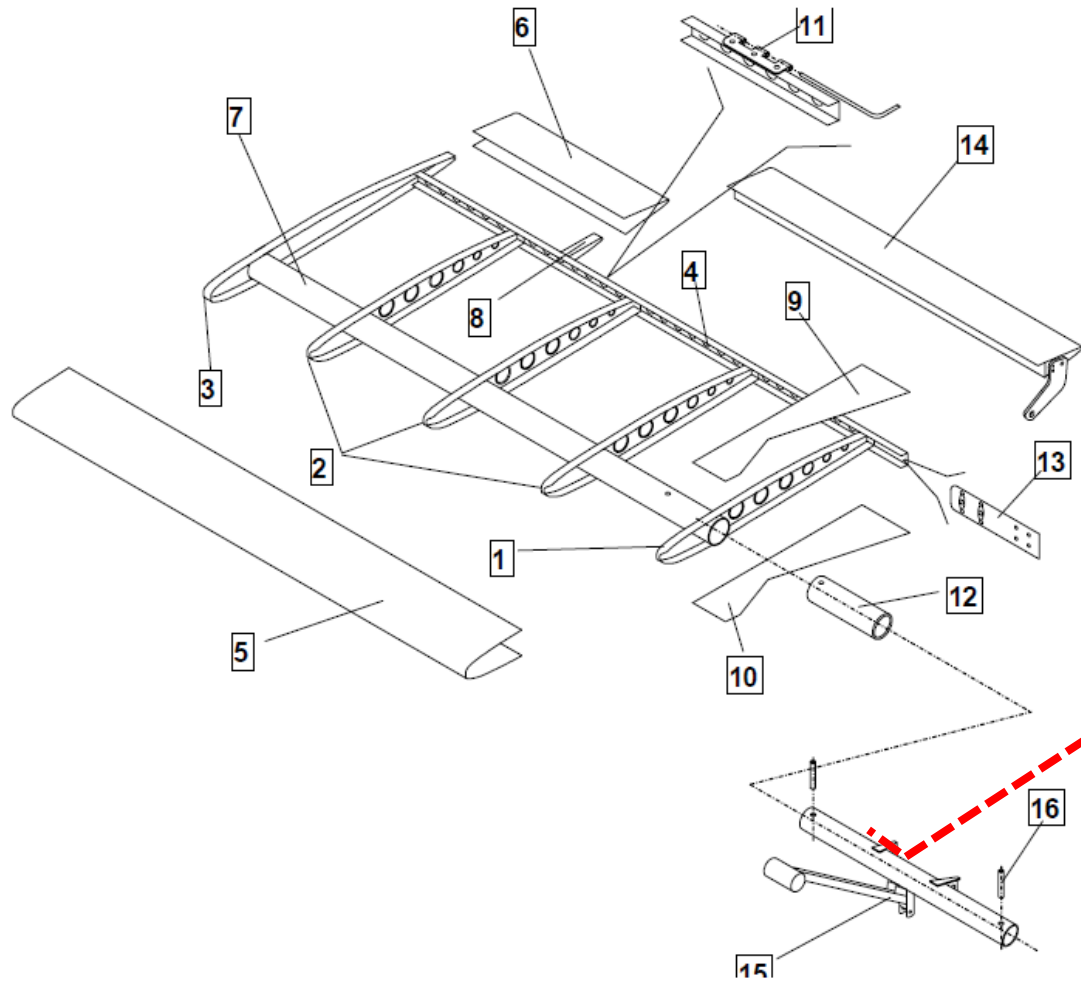
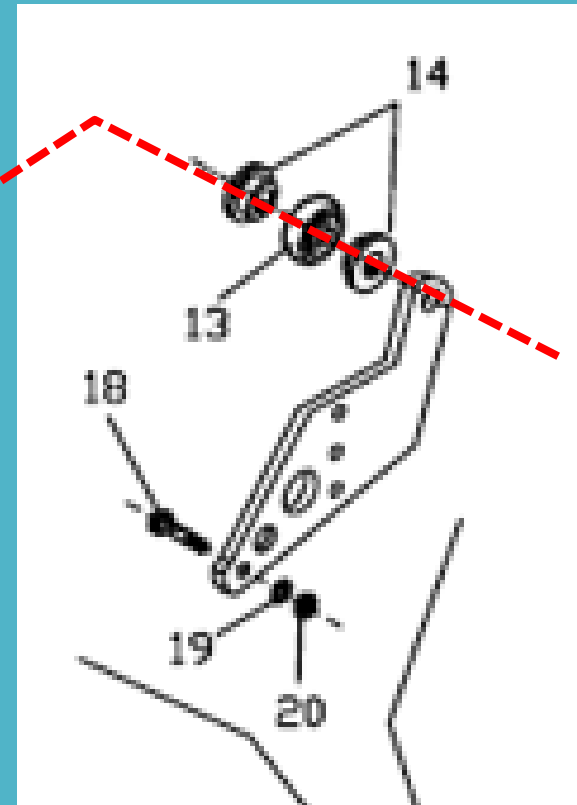
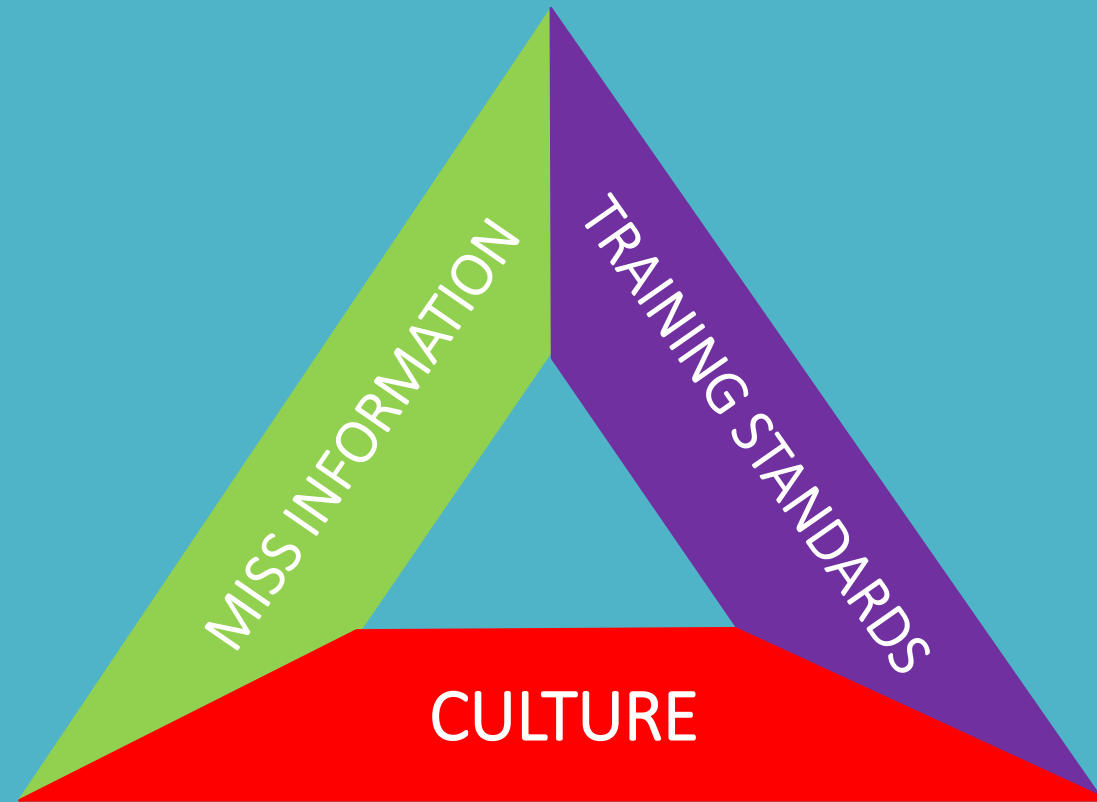


Fig. 3.1 STABILATORE

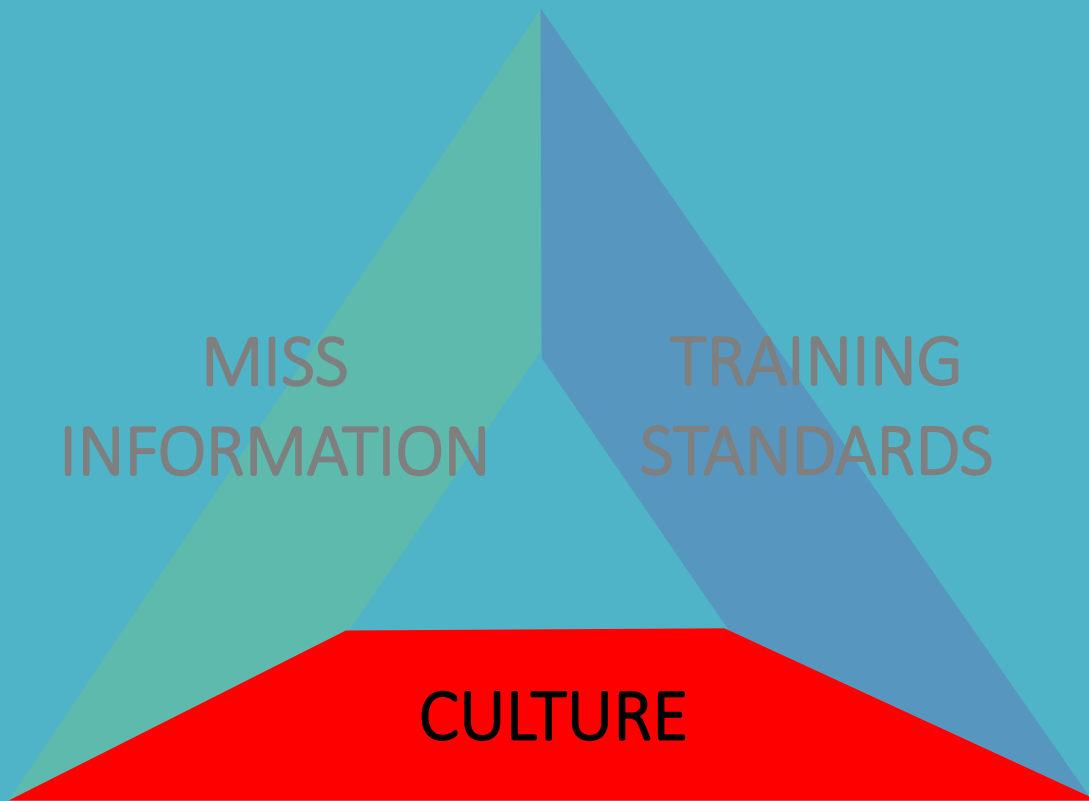


CONTRIBUTORS TO LOSS OF MAINTENANCE SYSTEM INTEGRITY



MAINTAINER TRAINING STANDARDS

TYPE	SPORT AIRCRAFT	EXPERIMENT	LIMITED
<p>CERTIFIED LAME</p> <p>B1/B2 CASR Part 66 Syllabus Theory CASR Part 147 – 90Weeks \$55K or Self Study + Exams – CASA Practical – Logbook or structured training</p> <p>CASR PART 43 AMTC</p>	<p>Approved Maintainers under CASR Part 149</p> <p>RAAus – 11 Limited Syllabus Theory – Self Study Exams – 50 question on-line exam Practical – Nil Required (Recommended) RAAus L2 No Syllabus</p> <p>Theory – Recognition of prior Experience Exams – NIL Practical – Observed competency by 2 other L2 holders or LAME</p> <p>GFA Defined Syllabus Mentoring – Club Based (Months) Theory – Structured Course (7 Days) Exams – Set by Administrator Practical – Structured Workbook Course</p> <p>NO PUBLISHED INVOLVEMENT WITH CASR PART 43 AMTC</p>	<p>AL KITS</p> <p>Owner builder is the “Manufacturer” VH Aircraft – Recommended oversight by SAAA during build phase only Short “Paperwork” course (2 Days) Open book Exam RAAus – 19 registered – L4 Check</p> <p>CASR PART 43 AMTC</p> <p>NO PUBLISHED INVOLVEMENT WITH CASR PART 43 AMTC</p>	<p>WARBIRDS</p> <p>LAME - MULTY TYPE TRAINING</p> <p>CASR PART 43 AMTC</p>



TOPGUN EFFECT

- FIGJAM.

SUPPORT

- Manufacturers don't know who owns their aircraft
- Some Manufacturers websites do not help at all
- Administrators are resource poor

TRAINING

- Don't want to make it too hard or expensive.
- Where to find data – AC43-13?? Facebook!
- Systems knowledge – Why do I need to know that?
- ICAW – I changed my oil? Isn't that enough?

TIME

- I don't have time for that, I just want to fly.

EXPECTATION

- Its supposed to be cheap
- Its like a car right?

PERCEPTION

- Its just for a hobby.
- It's only an RAAus aircraft

DESIRE

- Be a pilot, fly a plane, zoom around the clouds



1891
Otto
Lilienthal



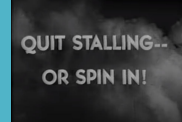
1903
Wright Brothers



1912
Wilfred Parke



1914
Harry Hawker



1943
U.S. NAVY
Training Film



2009
Air France 447



2017
DA40
Training Flight

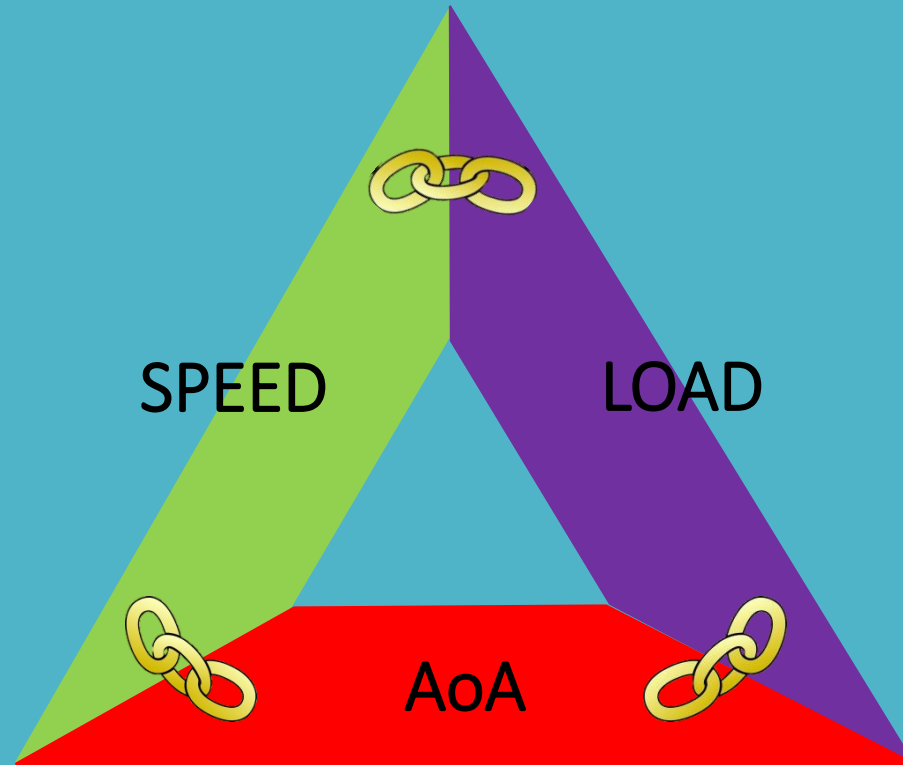


2022
DHC-6
Loss of Control

Gustave Whitehead?



STALL TRIANGLE



THE FUTURE

Assigning finite resources to achieve a desired outcome in today's world is challenging.

Humans have developed “Risk Assessments” strategies with almost everything we do.

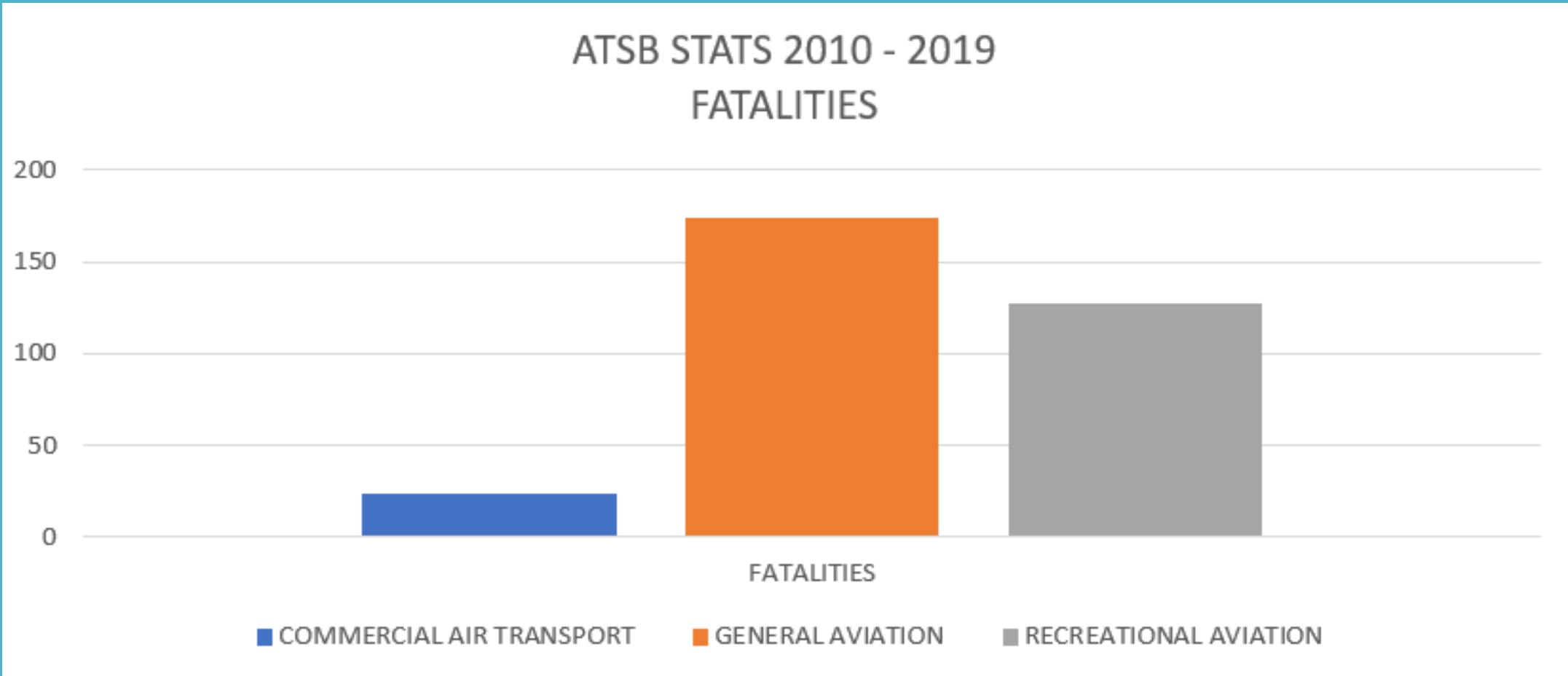
THE FUTURE

Decision makers use the results of these “Risk Assessments” to assign resources to where they believe it can reduce the risk to “ALARP”.

It is common to hear that “loss of life” in a small aircraft is not as big of a risk than in a commercial aircraft.

THE FUTURE UNLESS YOU ARE THE STATISTIC





THE FUTURE



THE FUTURE



HOW TO BECOME A

FLIGHT
INSTRUCTOR

THE FUTURE

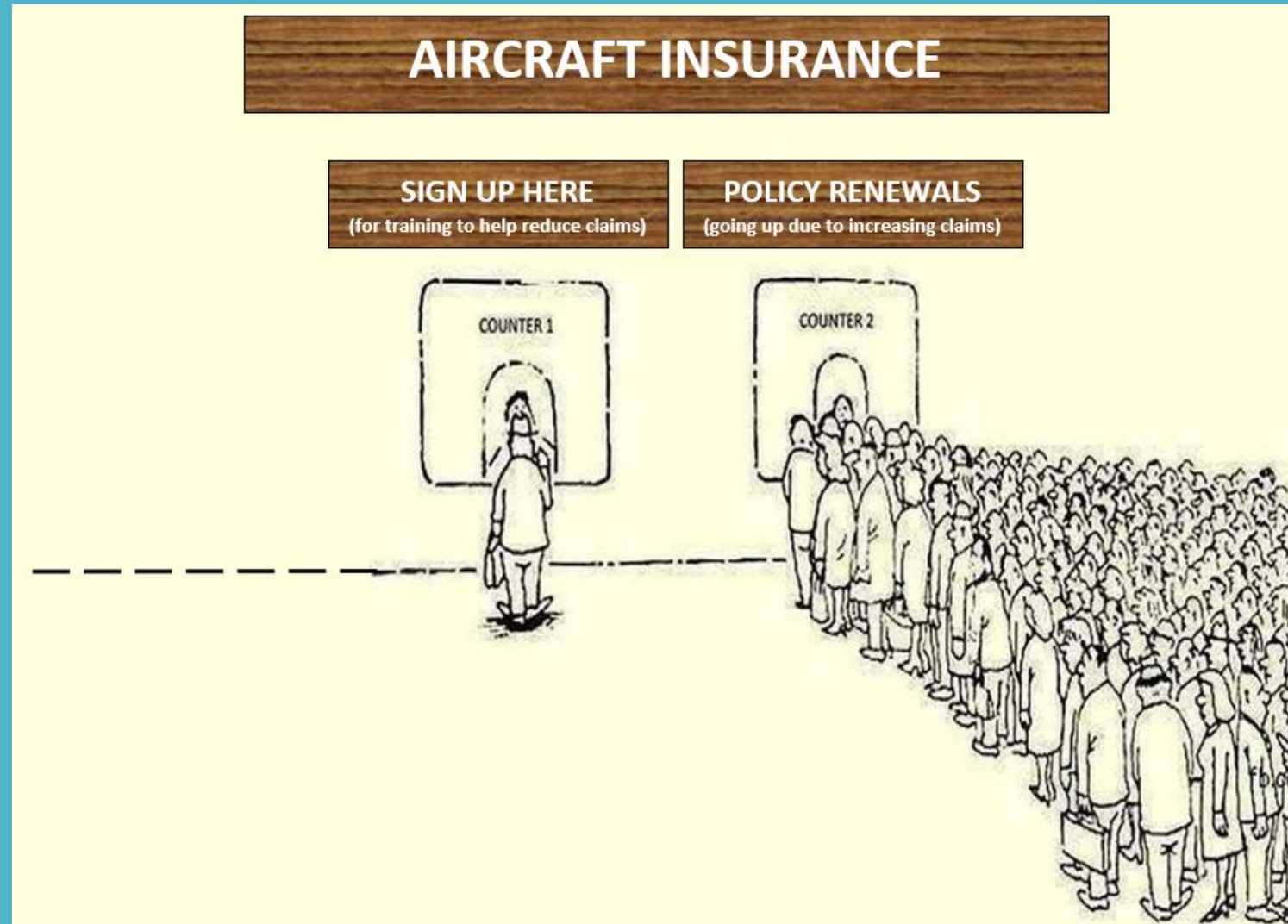


Appropriate training for emergencies is the insurance policy we hope we never need to claim upon.



OUR INDUSTRY NEEDS A HAND

REWARDS FOR UPRT



REWARDS FOR UPRT



REWARDS FOR UPRT

WHY SHOULD RA/GA UNDERTAKE UPRT

- HAVE TO
- WANT TO
- FINANCIAL ADVANTAGE
- EGO

REWARDS FOR UPRT

OWNERS

OPERATORS

PILOTS (Renters)

- Get to live
- Keep aircraft in 1 piece
- Improve proficiency
- Insurance discounts

- Staff get to live
- Keep aircraft in 1 piece
- Keep business operating
- Insurance discounts

- Get to live
- Improve proficiency
- Cost savings







ACTIVITIES TO DATE

- 2014 – Discovered ICAO Doc 10011 and commenced dissecting the document to develop and deliver appropriate training,
- 2014 – Present – Delivering and continually developing UPRT (LOC-IPT) elements,
- July 2019 – 3 Day workshop with RAAus to investigate LOC-I and where components of UPRT can be embedded into initial training,
- 2019 – 2022 – Identified significant variations to expected flight standards of competency by flight instructors (RAAus, GA, Specialist & UPRT Providers),
- Aug 2022 – Hosted the worlds first UPRT Providers Conference.
Lightly sponsored by CASA, Agile and AON Insurance,
- Oct 2022 – Along with other UPRT Providers and RAAus, invited to speak at the CASA UPRT Workshop in Sydney,
- Presently – Working with CASA to develop a UPRT training structure for all levels of pilot (Abinitio through to Instructors),
 - Delivered online Stall Workshops (Nov 2022 - Free of charge)
 - Addressing inquiries to deliver seminars and workshops Australia Wide.





LOOKING AHEAD

- Interactive On-Line training courses presented by an experienced UPRT Instructor,
- Training videos demonstrating UPRT (LOC-IPT) elements,
- Continue working with CASA/RAAus and Industry to ensure (as best we can) that the data delivered is correct and appropriate,
- Continue working with CASA/RAAus and Industry to develop an effective LOC-IPT and UPRT training structure,
- Roadshows to visit locations Australia Wide to educate both Instructors and Pilots,
- Creation of the “Association for UPRT Instructors”. Establishing standards and liaising with the regulator.
- **Worlds First** – UPRT Flight Instructors Workshop (20 January 2023) – CASA Endorsed.



Aviation Safety

By **R Durden** - Published: July 20, 2017 Updated: October 29, 2019

<https://www.aviationsafetymagazine.com/features/loc-recoveries/?fbclid=IwAR200Oa7XCLGrQDj5T6Te1d6S2AHWD6mY2WkMP7wSjXVJjodOo4wYbcTEsU>

Teaching plain vanilla unusual attitude recovery for more than 80 years hasn't been successful in keeping the loss of control accident rate under control.

Moving to LOC avoidance and recovery training that emphasizes the why of LOC, the risk factors leading to it, avoiding it and realistic in-flight simulations and recovery is the logical next step.

Besides, the training is a lot of fun.



LOSS OF CONTROL AWARENESS CAMPAIGN

GOAL

- LOCi Awareness Primacy
- Improving Pilot Competency

PROCESS

- Develop a UPRT Syllabus of training delivering agreed competencies for the GA/RA Sector.
- Insertion of suitable UPRT elements into the current VFR Syllabus

BENEFIT

- Reducing Loss of Life and Hull
- Reduction of Insurance Costs

WANTED

PARTNERS TO HELP DEVELOP CHANGE



