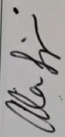
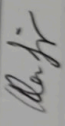
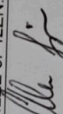


Aircraft		This Constitutes a Final Certification in accordance with CAR42ZE as a Loose Leaf Log Book Entry			
TTIS	Landings or Cycles	A/C Reg: VH-CWF	TTIS:	Job No: RAM 719	
		Date: 17/11/2021	Landing:		
		Serial No: 28-21949	Cycles:		
Work carried out: CAO 100.5 Pitot static leak check, ASI calibration check, Altimeter calibration check.					
Coordinator's Certification A signature on this document indicates that all work necessary for the completion of the inspection/work listed above and any additional maintenance in the category has been carried out and properly certified for in accordance with Civil Aviation Regulations (1988) 42ZE or 42ZN.					
		Name: Alex Simpson Signature:  For and on behalf of: Rainbow Aircraft Maintenance Pty Ltd		License No: 444437 Date: 17/11/2021 Certificate of Approval 1-BK3ST Issue 3	
This Constitutes a Final Certification in accordance with CAR42ZE as a Loose Leaf Log Book Entry					
		A/C Reg: VH-CWF	TTIS: 8190.53	Job No: RAM 725	
		Date: 07/01/2022	Landing:		
		Serial No: 28-21949	Cycles:		
Work carried out: Vac pump replaced with overhauled unit P/No. AA3215CCWIP S/No. 0HH820. ARC# AA10HH8-0000					
Coordinator's Certification A signature on this document indicates that all work necessary for the completion of the inspection/work listed above and any additional maintenance in the category has been carried out and properly certified for in accordance with Civil Aviation Regulations (1988) 42ZE or 42ZN.					
		Name: Alex Simpson Signature:  For and on behalf of: Rainbow Aircraft Maintenance Pty Ltd		License No: 444437 Date: 07/01/2022 Certificate of Approval 1-BK3ST Issue 3	

Date		Aircraft		This Constitutes a Final Certification in accordance with CAR42ZE as a Loose Leaf Log Book Entry Job No. RAM766			
Landings or Cycles		TTIS		A/C Reg: VH-CWF		A/C S/No: 28-21949	
23/11/22		8232-7		Date: 23/11/2022		Landings: A286701	
				Cycles:		Expired M/Release No: 011021CWF	
Periodic / Annual Inspection Carried out IAW CAR Schedule 5 and AD/ENG/4 amdt 11 Appx A The following Airworthiness Directives & Special Inspections C/O Satisfactory unless specified in additional work: AD/PA28/4 amdt 5 Control wheel co-pilot AD/2017-14-04 Oil cooler hoses AWB 32-006 MLG cracking AWB 34-008 issue 3 Compass swing AD/GEN/87 amdt 1 Primary flight control cables AWB 02-030 4a) Aileron spar doubler 4a)ii Rudder trim arm AWB 32-019 NLG cracking							
Additional work carried out: 1) New EI OPT-1 Oil temp and pressure gauge S/No. 271255 installed IAW STC SA5925NM 2) L/H and R/H brake callipers replaced new due corrosion P/No. 061-02100 3) MLG brake linings replaced 1 x L/H, 2 x R/H P/No. APS66-10500 4) 4 new sparkplugs fitted UREM38E 5) L/H pilot brake master cylinder seals replaced – brakes bled 6) Horizontal Stabilizer trim jack replaced IAW STC SA321750 – trim system rigged IAW PA28 M/M Sect 5-23 P/No. PSTAB-KT-1 7) Horizontal Stabilizer trim aft cable replaced P/No. MC62701-047 8) Horizontal Stabilizer trim tab L/H outboard, centre, inboard hinges replaced IAW FAA PMA Doc No. CA63560-002-1. P/No. CA63560-002 x 5; CA63560-003 x 3 9) CO Detector replaced 10) NLG fork and fork attach block removed for inspection – Sand blasted, primed 2 pak, painted 2 pak – Refitted with new hardware 11) Seat belts re-webbed by G&K Aviation interior's ARC# 54626 refers							
Coordinator's Certification A signature on this document indicates that all work necessary for the completion of the inspection/work listed above and any additional maintenance in the category has been carried out and properly certified for in accordance with Civil Aviation Regulations (1988) 42ZE or 42ZN.							
Name: Alex Simpson Signature: 				License No: 444437 Date: 23/11/2022			
For and on behalf of Rainbow Aircraft Maintenance Pty Ltd Certificate of Approval 1-BK3T Issue 3							

FOR	N	030	060	E	120	150
STEER	001	030	061	092	122	151
FOR	S	210	240	W	300	330
STEER	181	211	242	271	301	330
DATE	23/11/2022					Radios On

11

Date	Aircraft		Maintenance Details and Certifications
	TTIS	Landings or Cycles	
1/10/21	8159		AT TACHO 4259 PERIODIC INSPECTION CARRIED OUT IAW CASA MAINTENANCE SCHEDULE 5 AND L.B.3. ADDITIONAL WORK WAS TO 1/ REVIEW L+R MILG TYRES. 2/ INFLATE NLG STRUT WITH NITROGEN. 3/ RENEW LANDING LIGHT. 4/ LH NAV LIGHT GASSET RENEWED. 5/ FLEXIBLE FUEL LINES RENEWED AT L & R FUEL TANKS INCLUDING REMOVE & INSTALL FUEL TANKS. 6/ ENGINE BAY FLEXIBLE FLUID CARRYING HOSE'S RENEWED (EXCLUDING OIL COOLER HOSE ASSY'S, NOT DUE) 7/ 1 x NEW SPARK PLUG FITTED 8/ SERVICEABLE IGNITION WARNERS TO R/L MAGNETO. 9/ 500 HOUR INSPECTION CARRIED OUT TO L+R MAGNETO ASSY'S. 10/ NEW NAV LIGHT GLOBES TO L+R MARK LIGHT POSITION. 11/ NEW INTERIOR LIGHT COVER ASSY FITTED. 12/ NEW LAMP TO TURN & BANK WARNING LIGHT. THE FOLLOWING ADS COMPLIED WITH AND WIL DEFECTS FOUND :- ENG 4 #11 APPA, GEN 87 AMDT 1,
AIRCRAFT MAINTENANCE CERTIFICATION LOG			CONT PG 8
			7

Go to listing: <https://lightaircraftsales.com.au/listings/piper-pa-28-140-cherokee/>



P/F: 08 8322 1275
info@bowdeneng.com.au
www.bowdeneng.com.au
ABN: 67-604-076-191

ESE-PA28-27-002 Issue 01 Control Wheel Replacement

AIRCRAFT APPLICABILITY (Australian registered aircraft only)				
Manufacturer	Model	A/C S/N	Rego (Ref)	Operator
Piper Aircraft Corp	PA-28-140	28-21949	VH-CWF	Stevens, Dirk Broughton
The applicability is specified by Serial Number and the aircraft Registration is listed above for reference only. i.e. this document does not need to be revised if the aircraft owner changes the aircraft Registration.				

SCHEDULING This design approves a repair that is required for the L.H. control wheel prior to further flight.

At the time of issue of this document it was not planned to be carried out to the R.H. control wheel but it may be applied to the R.H. control wheel if damage is found or at an earlier date if requested by the operator.

CONTINUING AIRWORTHINESS Information in this document supplements the Aircraft Maintenance Manuals and it should be referred to (as required) for Continuing Airworthiness and Aircraft Maintenance.

All items installed in accordance with this design package are considered 'on condition'. CASA Airworthiness Bulletin (AWB) 02-1 provides recommendations and guidance for 'on-condition' maintenance. On Condition replacement and/or servicing should occur when an item exhibits conditions, symptoms, and/or abnormalities as defined within the applicable maintenance data.

Any failure, malfunction or defect related to this design that could present a risk to safety must be reported to Bowden Engineering Solutions Pty. Ltd. and CASA (ref CASR 21.003).

Following completion of this design, the repeat inspections detailed in AD/PA-28/4 Amdt 5 are no longer required for the replaced control wheel P/N 79276-00 as the inspections are only required for the removed control wheel P/N 62824-00. All other original control wheels P/N 62824-00 still installed in the aircraft must continue with the repeat inspections detailed in AD/PA-28/4 Amdt 5 until such time as they are replaced IAW this Engineering Order.

DESCRIPTION This design approves the replacement of the original bowtie control wheel P/N 62824-00 with a ramshorn control wheel P/N 79276-00.

Iss 01 **Date started** 21-Apr-2020 **Issue notes**
Initial Issue.
Customer job number: MIKE165

This design is only to be considered approved when this page is stamped and signed stating that it is approved per CASR 21.437.

One approval signature is considered acceptable to release a whole package when issued as a single pdf file.

Approved per Australian CASR 21.437	
Approval Holder Bowden Engineering Solutions Pty Ltd	I.O.A. A&E 20/009
Authorised Person Denis Bowden	ARN 567661
Signature: 	Date: 05/Jun/2020

Applicant: Consolidated Aviation Services

Compiled: Conor Walton

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Form ESF001 Iss 13, Aug-2019

Page 1 of 6

Maintenance Worksheet
Action Taken

AME

1 of 2

FOUND EXCESSIVE OIL LEAKAGE
ON PLANK


**Bowden
engineering solutions Pty Ltd**
 ABN: 67-604-076-191

M: 0402 339 039
 P/F: 08 8322 1275
 info@bowdeneng.com.au
 www.bowdeneng.com.au

ESE-PA28-51-001 Issue 01 Repair to Corrosion Damage

APPLICABILITY						
Manufacturer	PIPER AIRCRAFT CORP		Type	PA-28	Voltage	N/A
Operator	Model	Rego	S/N	Built		
STEVENS, Dirk	PA-28-140	VH-CWF	28-21949	1966		

SCHEDULING Prior to further flight.

CONTINUING AIRWORTHINESS These changes do not effect inspect ability of any critical aircraft structure or access to any parts.

It is recommended that a defect report is submitted to CASA through the SDR system.

No additional scheduled maintenance tasks are required following incorporation of this design as defects should be detectable through the normal Aircraft Maintenance Programme.

The Aircraft Operator should keep a copy of this document. Information in this document supplements the Aircraft Maintenance Manuals and it should be referred to (as required) for Continuing Airworthiness and Aircraft Maintenance.

DESCRIPTION This design has been issued to document and approve the repair to extensive light superficial corrosion damage to parts of the aircraft

DAMAGE CAUSE In service use, exposure to the elements

REVISION HISTORY
Issue 01 (06-May-2015) Initial Issue

This design is only to be considered approved when this page is stamped and signed stating that it is approved per CASR 21.437.

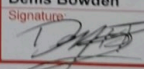
One approval signature is considered acceptable to release a whole package when issued as a single pdf file (it is not required to have a release signature on each individual document).

Ref also to "Notes" on the following page.

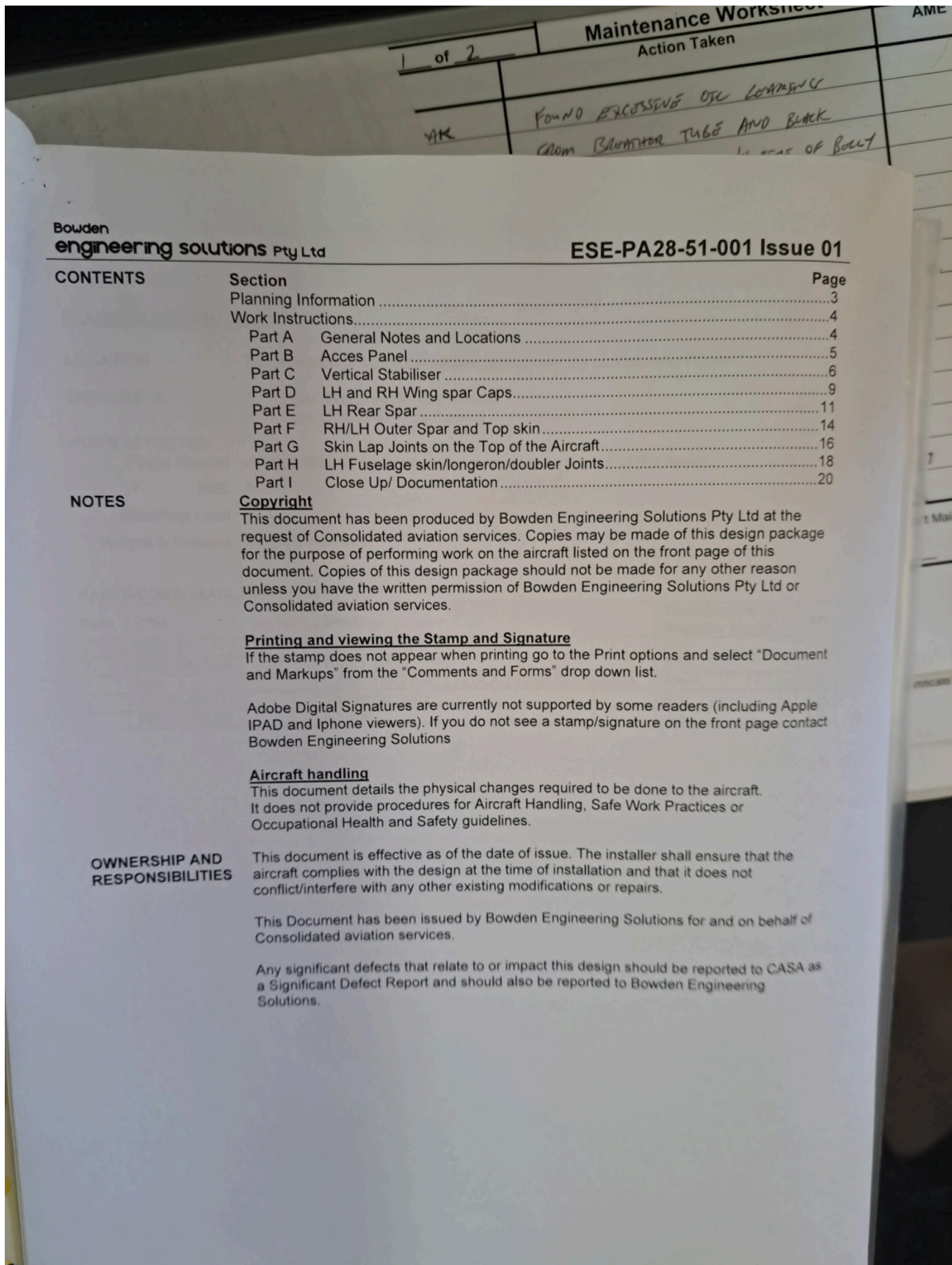
Compiled: Leighton Foster	Applicant: Consolidated aviation services
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© Apr-2016. Refer to notes on the following page.

Form ESF001 Iss 10, Feb-2015

Approved per Australian CASR 21.437
 Bowden Engineering Solutions IOA A&E 14/022
 Authorised Person ARN
Denis Bowden 567661
 Signature:  Date: 20/Apr/2016

Page 1 of 20



Bowden
engineering solutions Pty Ltd

ESE-PA28-51-001 Issue 01

WORK INSTRUCTIONS

The lines down the left side of the page may be used to assist with recording/initialling completion of each stage of this job (subject to the procedures of the organisation carrying out the work).

PART A GENERAL NOTES AND LOCATIONS

A.1. General Notes:

- A.1.1. All components that are to be repaired IAW this Engineering order are to be accessed IAW the appropriate section of the AMM.
- A.1.2. A detailed visual inspection at 10x magnification is to be carried out on each corroded area specified in this design.
- A.1.3. If corrosion damage exceeds the limits specified in this Engineering Order then contact Bowden Engineering for further design advice and do not proceed with this repair.
- A.1.4. All damage is to be blended out smooth with a width to depth ratio of 20:1.
- A.1.5. Ensure that all exposed aluminium due to blending is re-protected with Alodine 1200 and an Epoxy Primer (BMS 10-11, BMS 10-79 or as specified in the AMM) prior to re-installation of the component.
- A.1.6. Worn rivet holes should be reworked to the next nominal diameter (Contact Denis Bowden if this will reduce the Edge Margin below 2D).
- A.1.7. All components are to be re-installed with original type fasteners picking up on existing fastener locations unless otherwise specified.

- A.2. Using permanent ink, write "ESE-PA28-51-001 Issue 01" adjacent to all areas of work, the name of the Maintenance Organisation performing the work and date the work was performed (e.g. "Aug/2009"). (ref CASR(1998)21.875, AC 21.145(0) and ALAP 200703).

Location of corroded areas is shown in Figure 1.

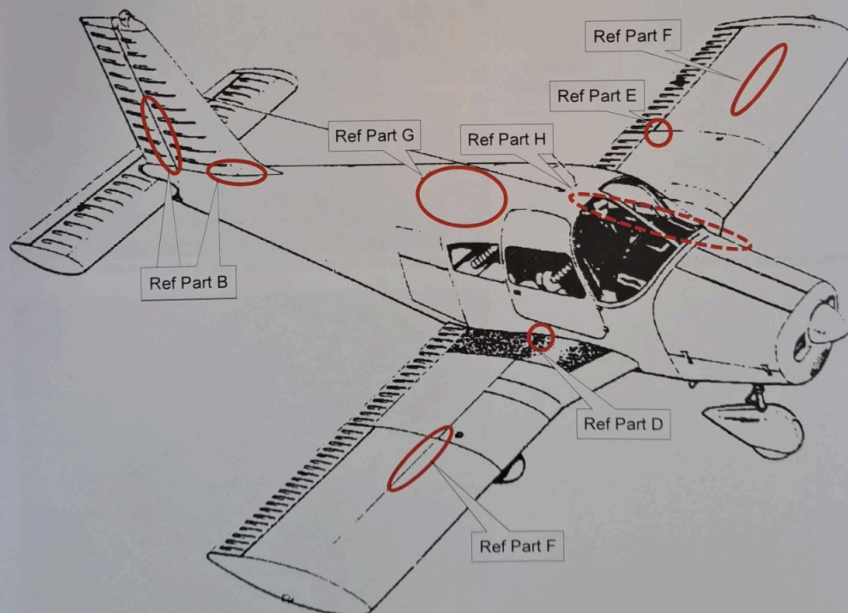


Figure 1 - Extract from Parts Catalogue PA-28 and PA28R Figure 1 showing the different locations of the corrosion damage



Australian Government
Civil Aviation Safety Authority

Piston Engine Condition Report

Engine Details

Engine make LYCOMING	Model O-320 E2A	Serial number L-17716-27A
Aircraft make PIPER	Model PA28-140	VH-CWF
Engine time since new 2000	Engine time since O/H 1479.7	Date of last O/H 6/5/95
Manf. published TBO 2000	CASA approved TBO	Top O/H (carried out)

Performance Run

OAT 23°C	Airport altitude 230ft	Static manifold pressure -
Max/static RPM 2300	Manifold pressure at maximum RPM -	
Fuel pressure/flow 5psi	Cylinder temperature 250°F	
Oil pressure @ idle (hot) 48psi	Oil pressure @ max. RPM 80psi	Oil temperature 120°F
		Oil consumption (lt/hr) 0.08

Cylinder Leak Rates

Cylinder Number	1. 72	2. 64	3. 72	4. 72	5.	6.	7.
	80	80	80	80	80	80	80
	8.	9.	10.	11.	12.	13.	14.
	80	80	80	80	80	80	80

Oil Filter (if fitted)

Disassembled and inspected for contamination.

Results

NIL CONTAMINATION EVIDENT

Remarks

Engine Bulk Sump @ 1303.15 hrs ETSD

Certification

I hereby certify:

Engine serial number **L-17716-27A** has been inspected in accordance with approved maintenance data and, as at the date of this certification, the engine is airworthy.

Signed

A. Simpson

Printed name

A. SIMPSON

Licence Number

444637

Date

23/11/22

FORM 728 (FORMERLY AW028)

piston engine condition report

09/1998 Page 1 of 1