

AIRFRAME MAINTENANCE RECORDS

Registration No.

Serial No.

N 6815T 414A-0645

1/2



AIRFRAME MAINTENANCE RECORDS

Log No. _2_

Aircraft Regis	tration No	
Model	Cessna 414A	
Serial No.	414A-0645	



Page No. _/__

DATE

TOTAL TIME IN SERVICE TOTAL TIME SINCE OVERHAUL TACH OR RECORDING METER TIME

DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK



Airframe Total Time: 1123.3

Hour Meter:___1123.3___

Date:___6/15/90__

Waco Regional Airport

CESSNA_S/N_414A-0645___N6815I

Above referenced aircraft modified per installation of RAM winglets and gross weight increase per STC SA4943SW. See 337. Installed re-marked tachometer, manifold pressure gage, airspeed indicators, and 3-in-1 gages per STC requirements. Static system tested per FAR 91.171, para A 2. (Leak check of system only.) Installed strobe light per STC SA4851SW. New empty weight and balance computed. Winglets painted to match aircraft. Aircraft approved for return to service for engine run-in procedures and modifications performed. Pertinent details on file under work order #11223.

RAM Aircraft Corporation, P. O. Box 5219, Waco, Texas 76708 CRS VA1R551K

Y-94 ALUMIGRIP CORROSION RESSISTANT PRIMER. BASE G8004 VESTEL WHITE MAJOR 44449U CHESTNUT THANK YOU, ACCENT 5242U LAS VEGAS GOLD ANDREW PEN A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT THANK YOU, ACCENT 5242U LAS VEGAS GOLD ANDREW PEN A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL BY- MAJOR 44449U CHESTNUT BY- MAJOR 4449U CH	CONTRACT AIRCRAFT PAINTING LOOG BOOK FNTON TYPE OF A/C CESSNA 414 AO645 WORK ORDE 7040 DATE 5-29 90 N N N6815T COMPLETE STRIP & PAINT. FOIL PAPER WINDOWS, GLASS, ANTENNAS, GEARS, GEARMELLS, ETC., PRI STRIPPING. HAND WASH OVER ALL A/C WITH ELDORADO ED 500 SOAP AND SCOTCH BRITE PADS. SPRAY ALODINE OVER ALL A/C, MASK & PRIME OVER ALL AIRCRAFT WITH
	 MAJOR 44449U CHESTNUT THANK YOU, ACCENT 5242U LAS VEGAS GOLD ANDREW PEN A/C CONTROLS REMOVED, BALANCED, AND RE-INSTAL
	Mille a. alsobred A47/480312

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	SIGNATU	DESCRIPTION OF WOR	RK PERFORMED— PERSON PERFORMING WORK	
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N#(C-416	1	DuPag	JA AIR C ge Airport / We	ENTER st Chicago, Il 60185	15MOH	
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DATE

TOTAL TIME IN SERVICE

TIME SINCE OVERHAUL TACH OR RECORDING METER TIME

DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

TYPE <u>Cessna 414A</u>
N# <u>6815T</u>
S/N 414A0645

JA AIR CENTER DuPage Airport / West Chicago, Il 60185 T.T. ___1187.1 TSMOH _______ REC. HR METER ___1187.7

AIRFRAME LOG

At this time the following repairs were made: Installed Dayton Granger static wicks on the primary flight controls. Checked cause of exhaust staining from the LH and RH. Found leaks to be from around tail pipe clamps and waste gate overboard clamps. Removed, cleaned, and retorqued these connections. Ordered proper gasket for the waste gate clamps. Replaced the LH alternator with an overhauled unit, p/n 649304R, s/n H2589310R. Replaced the defective LH tach generator with an overhauled unit, p/n MS25038-2, s/n 122830. Installed a 3M radome boot and painted. Replaced the RH engine inboard induction elbow from the intercooler to intake tube.

MAINTENANCE RELEASE

THE ARCHAFT, ARFRAME, ENGINE, APPLIANCE, OR COMPONENT DEPITTED WAS REPARED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE PERTINENT DETAILS OF THE REPAR ARE ON FILE AT THIS REPAR STATION UNDER

WORK ORDER NUMBER 00055

BATE 8-28-90 SCHED TRUCK To Washing

JOLIET AVIONICS INC.
Dupage Airport
West Chicago, R. 60185
FAN Repair Station #NF2R0298

TYPE Cessna 414A N# 6815T S/N 414A0645

JA AIR CENTER
DuPage Airport / West Chicago, II 60185

-----END-

AIRFRAME LOG

At this time the following work was completed: Serviced the LH strut with nitrogen. Disassembled the right strut, replaced the seals, serviced with MILH5606E hydraulic fluid and set the height. Adjusted the stall warning switch. Removed the cabin door and interior window panel. Tightened the cabin door seal pressure lines and corrected the position of pressure valve interfering with the latch pins. Checked door rigging. Serviced the oxygen system to 1800 PSI. Checked the rigging of the elevator trim system. Found the actuator and travels out of limits. Rigged MAINTENANCE RELEASE

the actuator and travels out of in the system as per the maintenance manual. Performed a general insection of the aircraft.

THE ARCRAFT, AISTRAME, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS REPAIRED AND INSPECTED IN ACCORDANCE OF THE CURRENT REQUIATIONS OF THE FEDERAL AVIATION AGENCY AS THE STATE OF THE REMOVED OF THE PERSON AS THE STATE OF THE REMOVED.

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JOLIET AVIONICS INC.
Dupage Airport
West Chicago, IL 60185
FAA Repair Station NF2R029L

DATE

TOTAL TIME IN SERVICE TOTAL TIME SINCE OVERHAUL TACH OR RECORDING METER TIME

DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK



Waco Regional Airport

Airframe Total Time: ___1340.5___

Hour Meter:___1340.5___

Date:___3/4/91___

CESSNA_S/N_414A-0645___N6815T

Above referenced aircraft modified per STC SA7633SW. See 337. Installed new TSIOL-550-A liquid cooled engines s/n 800530 and 800532 and new McCauley 3AF36C514-C propellers s/n 901903 and 902167. Installed Symbolic Displays Inc. Hoskins Fuel Flow Indicating System per STC requirements. Replaced left and right engine wastegate and valve assy's. Replaced left and right engine turocharger. Replaced left and right engine EGT probe. Installed re-marked tachometer, manifold pressure gage, new 4-in-1 gages, and new coolant pressure and coolant temperature gages per STC requirements. Installed new prop de-ice brush block on left and right engine. Installed new throttle, propeller, and mixture cables on left and right engine. Cables are RAM-FAA-PMA parts installed I/A/W STC SA7594SW. C/W AD 84-26-02 per replacement of air filters. Due replacement every 500 hours. Installed Precise Flight, Inc. Pulselite System I/A/W STC SA4005NM. See 337. New empty weight and balance computed. Engine nacelles painted to match aircraft. Aircraft approved for return to service for engine run-in procedures and modifications performed. Pertinent details on file under work order #11496.

RAM Aircraft Corporation, P. O. Box 5219, Waco, Texas 76708 CRS VA1R551K

3-8-91	1344.1		1344.1	Install new Gill	aircraft battery
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				Removed and replaced both main year tires. Serviced air conditioning system
				with freen. MAINTENANCE RELEASE
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	>			DATE 3-27-91 SCNED Stane (CHarif, 100)
			Č .	JOLIET AVIONICS INC. Dupage Airport
				West Chicago, IL 60185 FAA Repair Station NF2R029L
4-4-91		1370.81	n hobb	Ф
				Removed cabin pressurization outflow valve and cleaned. Reinstalled valve, sattie
				valve and cleaned. Reinstalled valve, sattie
				omo ground op's ek. MAINTENANCE RELEASE
				THE AIRCRAFT, AIRFRAME, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER
+				WORK ORDER NUMBER OF 1097
				JOLIET AVIONICS INC.
				Dupage Airport West Chicago, IL 60185
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Page	No.	

TYPEC_414A	
N# 6815T	
11/1/06/15	

JA AIR CENTER DuPage Airport / West Chicago, Il 60185

т.т1416.2	
TSMOH	
REC. HR METER 1435.2	

AIRFRAME LOG

At this time this aircraft was opened, cleaned, inspected and serviced as per Cessna service manual and Ram aircraft maint, manual for an annual inspection. All flight controls were checked for proper condition, cable tensions and travels. Lubricated the labyrinth seals. Lubricated the aircraft as required. Cleaned the outflow and safety valves. Inspected the pressurization filters, belly drain seals, door and window seals. The fuel system was checked for condition, security, and leaks. Serviced the fuel sumps and filters. The heater system was checked for condition, operation and AD compliance. All anti and de-ice systems were service and functionally tested. Electrical and lighting systems were checked for condition and operation. Serviced the aircraft battery. Functionally tested the elt. Battery exp. date is 4/92. The aircraft was jacked. Landing gear operational and rigging checks were perfromed. Cleaned and lubricated the gear sytem. Inspected and serviced the hydraulic system. Wheels were removed. Bearings were cleaned, inspected and greased. The brakes and brake system were inspected and serviced. The airframe mounted coversystems were inspected and serviced as per Ram service manual. The aircraft was checked for required markings and placards. The interior components, seat Structures and belts were checked for proper condition, security and location. These items were repaired, replaced or corrected: Complied with AD 82-07-03 Janitrol heaters by inspection and pressure decay test. Adjusted the pressure switch, spark plug gap and Ram air cable stop. Cleaned the fuel filter. Next inspection is due at a heater meter time of 798.1 or 24 mos. Removed the left and right propellers. Installed one additional spacer shim on each as per Ram service manual. Repaired the right rear seat arm rest. Installed new longer left and right tail pipe assy, from Knisley Exhaust Systems. Rerouted the right hydraulic line chaffing on the turbo. Secured other lines and wires rubbing on components in the right engine compartment. Replaced the leaking left engine gear hydraulic pump with an exchange unit, p/n 24194LAA, s/n 0471. Removed the rudder trim actuator and internally lubricated the jack screw. Reassembled and checked rigging. Replaced the elevator trim tab horn bearing. Replaced the left and right hydralic system filters. Next replacement due in 500 hrs. Tightened seeping fuel fitting in the right inboard wing. Tightened seeping hydraulic pressure lines in the right wing root. Inspected the flap system to determine the cause of severe flap tension problem. Inspected the cables, pulleys, brackets and bellcranks. Found the cause to be excessivly loose cables allowing the drive chain to jump at the drive. Rerigged the system as per Cessna service manual. Replaced the cracked pilot's seat inboard seat track. Removed the right strobe power supply, s/n 7517 and sent for repairs. Adjusted the lower cabin door cables. Adjusted the elevator trim cable tensions to spec's. Cleaned mold or corrosion from under the cabin floor on the belly skin. Replaced the missing emergency exit handle cover. Replaced the missing fuel filler placards. Replaced the left wing de-ice light. Replaced and balanced the nose tire. Installed a new Goodyear F.S.II 6.00X6 6 ply tire. Replaced the nose wheel bearings TOTAL TIME 1416.2 and races. AD's were checked through BW 91-09. The aircraft was ground run and I certify that this HIRCRAL checked for proper operation.----end----end----was Repaired and/or inspected in acc

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Airframe Total Time: 1456.7
Hour Meter: 1456.7

Hour Meter: 1456.7
Date: 5/23/91

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Waco Regional Airport

CESSNA S/N 414A-0645 N6815T

On above referenced aircraft, installed RAM overhauled turbo controllers, left s/n KFRO168 and right s/n NJRO147. See serviceable parts tags dated 4/29/91. Installed new left engine oil pressure transducer and left EGT probe; checked gage calibration. Installed new recognition light lens on right cowling light. Pertinent details on file under work order #11712.

RAM Aircraft Corporation, P. O. Box 5219, Waco, Texas 76708 CRS VA1R551K

TYPE_	Cessna 414A	
N#		
S/N_	414A-0645	

JA AIR CENTER DuPage Airport / West Chicago, Il 60185

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AIRFRAME LOG

Replaced the left hand and right hand engine coolent check valves supplied by Ram. Part number 1304D-3-80. Removed leaking right hand propeller govenor, part number DCFS290D9/T3, serial number 900139 and installed govenor serial number 910151. Ground and flight checked. Bled the left hand engine coolent system and added coolent. Opened the cabin and right hand wing to gain access to the airconditioning components. Leak checked the system with an electronic sniffer. Located one leaky fitting in the condenser and one in the right hand evaporator fitting. Tightened fittings and rechecked. Tested windshield heat operation. No problem was found. Checked the cabin pressurization for cause of pressure MANTENANCE RELEASE

with the GPU. No leaks found. Checked the THE FEDERAL ANATION AGENCY AND IS APPROVED FOR RETURN TO SERVED WING heat exchanger connections. Tightened PERTINENT DETAILS OF THE REPAR ARE ON FILE AT THIS REPAR STATION LIGHTER. loose clamps. Cleaned, gapped and rotated WORK CROER NAMEER all spark pluqs.----end-----

change. Removed and cleaned the outflow and the ARCRAT, ARFRANE, ENGRE, APLIANCE, OR COMPONENT DESTITED WAS

Dupage Airport lest Chicago, IL 6

FAA Repair Station NF2905

Joliet Avionics DuPage Airport West Chicago, IL 60185

27 September 1991 WO 126092 N 6815T

Sheepskin Slip Cover, Pilot: Brown Sheepskin from Regal Shearling and US-431 Brown Vinyl from Matthew Hinsman. All fabric meets FAR23.853 B Vertical Requirements. Burn test on file at Joliet Avionics.

> **E. APPRESSIONEL TON CONTROLLENT FIELD WAS** SOMETHIE WITH CUTERENT REGULATIONS OF YAND IS APPROVED FOR PETURN TO SERVICE. BONDER BROWN SOUTH DOCK

> > SUB-TOTALS this page

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
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Waco Regional Airport

Airframe Total Time: 1618.0

Hour Meter: 1618.0

Date: 10/23/91

CESSNA S/N 414A-0645 N6815T

On above referenced aircraft, c/w RAM Service Letter 050191 per flushing and reservicing coolant systems w/ETX-6024 coolant w/ 50/50 mix. Complied with RAM Service Letter 100491 per p/n 1235-3 wastegate overboard pipes installed. Complied w/ RAM Service Letter 072991 per p/n 1510-1 radiator exit ramps installed. Calibrated 4-in-1 gages and coolant gages. Drilled air holes in cowling around landing light and replaced lens. Aircraft approved for return to service. Pertinent details on file under work order #11898.

RAM Aircraft Corporation, F. O. Box 5219, Waco, Texas 76708 CRS VA1R551K

Note: IN About Entry 4: in gages were replaced. Ref. w. v. 11898.

APPROVED
REPAIR STATION
NO. VAIRSSIN
NO. V

TYPE <u>Cessna 414A</u>
N# <u>N6815T</u>
S/N 414A0333

JA AIR CENTER DuPage Airport / West Chicago, Il 60185

AIRFRAME LOG

Complied with RAM Service Letter 060591 Alternate Air Door springs by installing new LE055CD-7 springs supplied by RAM and checking door operation. Removed the right hand engine propeller govenor, serial number 910151 and installed an overhauled unit DCFS290D9/T3, serial number 810557 supplied by RAM due to oil leaks from the head. Set high RPM stop and rigged the propeller control. Removed the lower cabin door snubber. Replaced the seal and serviced. Installed a loaner cabin pressure controller and flight checked for proper operation. Adjusted the left hand engine alpha angle to eliminate a throttle split @ upper cruise settings. Set idle mixtures and speeds. Serviced the air conditioning system with freon. Repaired a broken wire on the flap preselect up switch.----end-----

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J. ET AMONCS INC.

West Chicago, IL 60185 FAI Repair Station MF2R0291

ORDER OF

	DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME		DESCRI SIGNATURE & CER		RK PERFORME PERSON PERFO	_	
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ASSY DATE

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REPAIR

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MODIFY

PRODUCTION REJECT

AE-1101 (3/88)

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INSPECTORS SIGNATURE

SHIPPER NO.

DATE

Page No. 11

DATE

TOTAL TIME IN SERVICE TOTAL TIME SINCE OVERHAUL TACH OR RECORDING METER TIME

DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK



Hour Meter: 1709.7

Total Time:_

Date: 12/12/91

Waco Regional Airport

CESSNA S/N 414A-0645 N6815T

On above referenced aircraft replaced left and right Westberg 4-in-1 engine gages complete with control boxes and oil pressure transducers. Check gage operation and calibration. Check both airspeed indicator calibrations and found to be in tolerance. Leak check both pitot static systems per FAR 91.411 and found in tolerance. Replaced left engine starter adapter with TCM rebuilt unit s/n P91DCL, reservice coolant system with existing coolant I/A/W RAM Service Manual Supplement No. 1381. See engine logs this date for other details. Note: Hour Meter is disconnected at this time. Meter ran while aircraft was on jacks 11/11/91. Will be reconnected when aircraft total time matches meter time. Pertinent details on file under work order #11971.

RAM Aircraft Corporation, P. O. Box 5219, Waco, Texas 76708 CRS VA1R551K

	woth 1.	JOLIET AVIONICS, INC.	ASS III
~~		Signature Day N	Inspector
	Joliet Avionics, Inc. DuPage Airprot West Chicago, IL 60185	27 April 1992 NO 136793 N 6815T	
	Hobbs: 1761.0		
	Removed ARC Cooling Fan. Insta Fan. Weight change negligible.		
	AND DET ANDONHOS	INIC.	
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9·87-9 3	1725.8		1795.8	Ligged the uplack books and tested landing year operation Ordered new style hooks & springs. Puparied the tays by
				style hooks & springs. Espained the tage beg
 : <u>@</u>				JOLIET AVIONICS, INC. FAA REPAIR STATION #NF2R029L CLASS III
				SIGNATURE 002400 Duce Liberture
	and the second			And the second of the second o
N#681	sna 414A 5T A-0645		DuPage	JA AIR CENTER e Airport / West Chicago, Il 60185 REC. HR METER
- Commentation of the				AIRFRAME LOG
Replace 2) Replace	d the tar	nk with a	a new uni	oller resevoir tank. Found a 200 feet per minute lead t. Fing ramp at the nose fork found broken during a gener
check.				end INDET AVIONICS, INC.
				FAA REPAIR STATION #NF2R029L CLASS III
				SIGNATURE QUE TEOLICO LICIA
1				and 000651 Alternate inspectan
		7	7.1.	
	i			
		Joliet Avid DuPage Airp West Chicag	ort	Date: 5/22/9 Z N# 68/57 WO# 138649
		Tested A accordan and FAR	ce with Part 4	Altitude Reporting and Static System(s) in 43, Appendix "E" for compliance with FAR 91.411
è		Pilo Co-Pilo	ot's Altimeter ot's Altimeter	P/N <u>5934</u> S/N <u>V516</u> Range <u>30K</u> P/N <u>5934</u> S/N <u>V4998</u> Range <u>30K</u>
\$		Harbern		odel: A.T. 45-9.A S/N: 9645 /9360 Accordance with Part 43, Appendix "F" for 413 this date.
Y b A	1	F.A.A. REPAIR	STATION #NF2E	2029L, Class III
) i			Signatur	e Long Mall Inspector
2				
				SUB-TOTALS this page
	Secretary by			TOTALS—Carry forward to next page

SUB-TOTALS this page

TYPE Cessna 414A	JA AIR CENTER
N# 6815T 8/N 414A0645	DuPage Airport / West Chicago,
C(N) 414A0645	

11 60185 T.T. 1783.6

REC. HR METER 1783.6

AIRFRAME LOG

At this time this aircraft was opened, cleaned, inspected and servcied as per Cessna Service Manual and Ram Aircraft Maintenance Manual for an Annual Inspection. All flight controls were checked for proper condition, cable tensions and travels. Lubricated the labyrinth seals. Lubricated the aircraft as required. Cleaned the outflow and safety Inspected the pressurization filters, belly drain seals, door and window seals. The fuel system was checked for condition, security and leaks. Serviced the fuel sumps and filters. The heater system was checked for condition, operation and AD compliance. All anti and de-ice systems were serviced and functionally tested. Electrical and lighting systems were checked for condition and operation. Serviced the aircraft battery. Functionally tested the ELT. The aircraft was jacked. Landing gear operational and rigging checks were performed. Cleaned and lubricated the gear system. Inspected and serviced the hydraulic system. Wheels were removed. Bearings were cleaned, inspected and greased. The brakes and brake system were inspected and serviced. The airframe mounted coolant systems were inspected and serviced as per Ram service manual. aircraft was checked for required markings and placards. The interior components, seat structures and belts were checked for proper condition, security and location. items were repaired, replaced or corrected:

1) Adjusted the elevator cable tensions to manufacturers specifications.

2) Replaced the ELT battery. New battery expiration date is 4/94.

3) Replaced pressurization two belly drain seals.

4) Replaced the inoperative left hand engine EGT probe and calibrated.

5) Performed a detailed inspection of all cabin pressurization hoses, cable seals, ducting valves, controllers, flapper valves and other related components. No defects were found except item #3.

6) Replaced the main gear uplock hooks and springs with new style units ordered 2/27/92.

Rigged as per Cessna Service Manual and tested operation.

7) Replaced the defective left hand engine oil temp. probe and checked operation.

8) Performed a detailed inspection of the exhaust and turbo system for cause of manifold pressure changes with decent and possible pressurization problems.

a) Found both the left hand and right hand engine RH slip joints loose at the ball joint. Removed, cleaned and inspected. Reinstalled with new hardware and springs.

b) Replaced the failing right hand engine waste-gate overboard pipe from the wye wye assembly to waste-gate.

c) Removed the loose right hand turbo. Welded the cracked wye assembly. Reassembled and tightened the turbo to specifications.

d) Tightened the loose left hand turbo after inspection.

9) Relocated the ground wire for the left hand engine 4 way gauge to stop jumpy needles.

10) Replaced two left hand and one right hand propeller de-icer boots.

SUB-TOTALS this page

P	age No/	5			,	
G as even	DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME		WORK PERFORMED—
		/1/4			JA AIR CENTER	1702 6
TYP	60157	a 414A		DuPage A	irport / West Chicago, Il 60185	т.т1783.6
N# S/N	71710					REC. HR METER 1783.6
0,					AIRFRAME LOG	
11)	Reseale	d leaking	g fitting	s on the	right hand waste-gate.	
					d wing ice light socket.	
				tail na		
14)	Repaire	d the le	it hand e	engine le	ft hand mag "P" lead to cor oning hydraulic pump with a	rect the hot mag.
					ngine fuel flow transducer	
					358X and sent to Overland A	
	Next te	st requi	red 5/97.	6.		
18)					ottle S/N 194 and sent to	Overland Aviation for
19)	•			required !	ion air filters by replacin	o the filters. Next
					2283.9 hours total.	6 the Hitters. Rent
20)					heaters by pressure decay	
	100 hou	r service 7 heater	e. Next	inspection	on is required in 24 months	or 100 heater hours
21)				nt hand e	ngine landing gear hydrauli	c pump drain line.
					er pedal return springs wit	
23)	Replace	ed the le	ft hand a	and right	hand fuel cap o-rings.	
					drain valve.	50 V 10 0-1 1
	-				with a new Goodyear FSII 6 quantity placard.	.50 x 10 oply tire.
					the aircraft's tail.	
	Replace	d the ri			c filter housing line fitti	ng packings to stop a
20)		ic leak.	hrrdway1 i	a lina i	a the wight hand ring weet	Tight and the loose
29)		and recl		.c me n	n the right hand wing root.	lightened the loose
30)				ne in the	right hand wing root. Tig	htened the loose "B" nut
	and rec					
The	aircraf	t was gro	ound run	and check	ked for proper operation.	DOTE 6-1-92 TACH 1783.6
				7,7 = 1	end	TODAL TIME 1783.6
						certify that this airframe
						was Repaired and/or inspected in accord- ance with AN annual inspection
,						and is approved for return to service.
						Pertinent details are on file at this Repair Station under W.O. # 002825
1						remet will inspector
•						JOLIET AVIONICS, INC. WEST CHICAGO, IL 60185
						F.A.A. APPROVED REPAIR
	Commence of the					STATION # NF2R029L
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					TOTALS—Carry forward to next page	

TYPE Cessna 414A	JA AIR CENTER DuPage Airport / West Chicago, Il 60185	T.T. 1798.5
N# 6815T S/N 414A0645	Durage Airport/ west circago, it 00109	REC. HR METER 1798.5
3/N	AIRFRAME LOG	neo. m weren
failure. Found a char box to the gauge. Rep	GT and CHT system gauge. Located cause ffed and shorted harness in the LH wing paired the wires, replaced the intercon Calibrated the system as per Ram Servi	g from the interconnect nect box, and replaced the ce Manual using loaner
	end	
	MAI	NTENANCE RELEASE
	REPAIRED AND INSPECTED THE FEDERAL AVIATION AGE PERTINENT DETAILS OF THE	NGINE, APPLIANCE, OR COMPONENT IDENTIFED WAS IN ACCORDANCE WITH CURRENT REGULATIONS OF ENCY AND IS APPROVED FOR RETURN TO SERVICE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER 003035
1	WORK ONDER NUMBER	
	DATE 7/17/92 SIG	VIONICS INC .
	Dupage Air West Chica	
TYPE <u>Cessna 414A</u> N# 6815T	JA AIR CENTER DuPage Airport / West Chicago, Il 60185	T.T.
s/N414A0645		REC. HR METER 1798.5
	AIRFRAME LOG	
Removed and replaced of Also replaced dryer.	em inoperative. Troubleshot system and compressor unit with new compressor P/N Vacuated system and serviced with free king the hydraulic motor and pump due terminate the system and serviced with free king the hydraulic motor and pump due terminate the hydraulic motor and pump due terminate with the hydraulic motor and the hydraulic motor and pump due terminate with the hydraulic motor and the hydraulic motor an	8366-508 S/N 0203905170. n and operational checked.
	NA NA	NTERANCE RELEASE
	THE ARCRAFT, AUTOMAE, OR REPAIRED AND INSPECTED THE FEDERAL AMARION AS FERINAL OF THE	TOTAL OF COMPONENT IDENTIFIED WAS INCOMPONED WITH CURRENT REGULATIONS OF ELCTAND IS APPROVED FOR RETURN TO SERVICE. IEMAR ARE ON FULLATIONS REPAIR STATION UNDER
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	JOLET A Dunage A West Chica FAA Repet	MONICS INC. port Station NF2R029L
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ge No	17	1					
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	SIGN		DF WORK PERFORMED— NO. OF PERSON PERFORMIN	G WORK
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	sna 414A		DuPage Ale	JA AIR CEI	NTER Chicago, Il 6018	15 T.T. 1817,9	
6815 414A	A0645		Durage An	port/ west	Officiago, 11 oo 10	REC. HR METER_	1817.9
	***	,	A	IRFRAMI	E LOG		
Install blate. Trouble	led a new Reassemb eshot the	nut plate oled and o inoperati	e and modifichecked the ive overhea	fied the a e operation ad dimmer a	ttaching stud n. and inoperativ	aired the door fra to accept a secon we hot circuit. F	d nut Yound a
	cuit brea			iead dililile.	r assembly.	Repaired the wire;	reset
				end			
						MAINTENANCE RELEASE	
					REPAIRED AND INSPEC THE FEDERAL AVIATION	ME, ENGINE, APPLIANCE, OR COMPO TTED IN ACCORDANCE WITH CURR N AGENCY AND IS APPROVED FOR THE REPAIR ARE ON FILE AT THIS RE	ent regulations return to servi
					WORK ORDER NUMBER	003026	7-1-1
					DATE 7/31/92	SIGNED DURETTO	beckers
					Dupage West C	T AVIONICS INC. e Airport hicago, IL 60185 pair Station NF2R029L	
						498	pulmor design for the control of the con-
	DuPage	Avionics, Airport hicago, IL			WO	October 1992 140599 815T	
	Hobbs:	1902.8	*				
	Bendix	/King KLN-9 tenna S/N 1	O Global Pos:	itioning Syst	tem S/N P1077 and	ntenna. Installed Bendix/King KA-91 on. Weight change	
,		*					
100 m				JOLIET AVION	ICS, INC.	25 m/	
	- m		*	FAA REPAIR 977	A JE	The same of the sa	,
			3				
		, ,					

DATE

TOTAL SERVICE TOTAL SINCE

TACH OR RECORDING METER TIME

DESCRIPTION OF WORK PERFORMED-SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK



Airframe Total Time: 1911.9 Hour Meter:_

Meter: 1911.9 Date: 11/11/92

Waco Regional Airport

CESSNA S/N 414A-0645 N6815T

Above referenced aircraft modified by removal of existing oil pressure, oil temperature, cylinder temperature, and EGT 4-in-1 gages and dual coolant temperature/pressure gage with wiring, probes and transducers. Installed new R.C. Allen oil pressure, oil temperature and coolant temperature 3-in-1 gages, new coolant pressure gages, new cylinder head temperature gages and new Alcor EGT gage with wiring, probes, and lines as needed. Installed I/A/W RAM Dwg. No. 1524, Rev. C, dated 9/1/92 and STC SA7633SW. See 337. Negligible weight and balance change. Left and right engine coolant systems flushed I/A/W RAM Service Letter No. 050191. Systems re-serviced with 60/40 mixture of Service Letter No. 050191. Systems re-serviced with 60/40 mixture of Prestone/distilled water per RAM Service Manual 1381. Installed new slip joint p/n 1001-3 on left engine exhaust, inboard side. All systems checked for leaks and operation. Aircraft approved for return to service. Pertinent details on file under work order no. 0395.

5219, Waco, TX 76708 CRS VA1R551K RAM Aircraft Corp

TYPE Cessna 414A	JA AIR CENTER DuPage Airport / West Chicago, Il 60185	т.т 1946.3
N# <u>6815T</u> S/N 414A0645		REC. HR METER 1846.3

AIRFRAME LOG

1) Replaced the cracked LH engine outboard exhaust riser assembly with an overhauled assembly from Dawley Aviation.

2) Removed the loaner pressurization controller and reinstalled the original unit S/N 60-1776 after repair by AirRSearch.

3) Replaced the inoperative gear down light lamps.

4) Troubleshot inop, heater (only on ground). Found the combustion blower intermittant. Replaced the motor with an overhauled unit P/N WZ1V01Z S/N 4RA11629 and tested heater

5) Inspected the tires for wear. Replaced the RH main with a new Goodyear 6.50X10 8ply FSII tire. LH main tire will be due for replacement @

next scheduled service.

6) Troubleshot cause of hydraulic leak between RH THE AIRCRAFT, AIRFRAME, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS engine nacelle and fuselage. Found three "B" nut fittings loose in the wing on the hard lines. Retorqued fittings & leak checked.

7) Troubleshot cause of LH prop slow to feather. Found control cable very stiff restricting the govenor movement. Lubricated & adjusted the control. Checked operation of the propeller.

REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER

MAINTENANCE RELEASE

WORK ORDER NUMBER	003650
DATE 1/9/93 SIGNED	XIVE Tolentenison
JOLIET AVIO	NICS INC.
Dupage Airport	
West Chicago,	IL 60185

FAA Repair Station NF2R029L

Page No	
TYPE Cessna 414A N# 6815T S/N 414A0645 DuPage Airport / West Chicago, Il 60185	T.T2036.7 REC. HR METER2036.7
AIRFRAME LOG	
9) Replaced broken safety on IH tach generator. 10) Troubleshot shorted RH engine nose cap inlet de-ice. Found chaffed & shorted wires. Renained as necessary. THE ARCRAFT, ARFRAME, E REPAIRED AND INSPECTED THE FEDERAL AVIATION AG	essary. X10 8ply FSII tire. y; tightened the socket tabs. s. pivot points. Replaced the ner induction components as nd installed a new inlet induction I replaced the induction filter.
DATE 3/18/93 SIG	are to the
410	VIONICS INC.
Dupage Air	port
	go, IL 60185 Station NE2R029L
TYPE Cessna 414A DuPage Airport / West Chicago, Il 60185	Т.Т.
N#6815T	REC. HR METER 2071.6
AIRFRAME LOG	
1) Complied with AD93-05-03 wing fuel check valves by testing procedures in the AD. Found the forward and middle LH wing Closed the wing. Installed placards correcting the unusable added ammendments to the P.O.H. as called out in the AD untavailable.	valves defective. e fuel to 15 gallons and
AAAIN	NTENANCE RELEASE
THE FEDERAL AVIATION AGEI PERTINENT DETAILS OF THE R	GINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS NACCORDANCE WITH CURRENT REGULATIONS OF NCY AND IS APPROVED FOR RETURN TO SERVICE, EPAIR ARE ON FILE AT THIS REPAIR STATION UNDER 003954
WORK ORDER NUMBER	
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	II DIVILES TRUE
Dupage Airp	IONICS INC.

Page	No.	

TYPE	Cessna 414A	
N#_	6815T	
S/N	414A0645	

JA AIR CENTER DuPage Airport / West Chicago, Il 60185

T.T. 2137.0

REC. HR METER 2137.0

AIRFRAME LOG

At this time this aircraft was opened, cleaned, inspected and serviced as per Cessna Service Manual and RAM Aircraft Maintenance Manual for an Annual Inspection. All flight controls were checked for proper condition, cable tensions and travels. Lubricated the labyrinth seals. Lubricated the aircraft as required. Cleaned the outflow and safety valves. Inspected the pressurization filters, belly drain seals, door and window seals. The fuel system was checked for condition, security and leaks. Serviced the fuel filters and sumps. The heater system was checked for condition, operation and AD compliance. All anti- and de-ice systems were serviced and functionally tested. Electrical and lighting systems were checked for proper condition and operation. Serviced the aircraft battery. Functionally tested the ELT; battery expiration date is 4/94. The aircraft was jacked. Landing gear operational and rigging checks were performed. Cleaned and lubricated the gear system. Inspected and serviced the hydraulic system. Wheels were removed. Bearings were cleaned, inspected and greased. The brakes and brake system were inspected and serviced. The airframe mounted coolant systems were inspected and serviced as per RAM Service Manual. The aircraft was checked for required markings and placards. The interior components, seat structures and seat belts were checked for proper condition, security and location. These items were repaired, replaced or corrected:

l) Replaced the broken RH hydraulic pump case drain tube.

2) Replaced the leaking RH landing gear hydraulic pump with an exchange unit P/N 24194-LAA S/N 128.

Continued Next Page----

TYPE <u>Cessna 414A</u> N# 6815T	JA AIR CENTER DuPage Airport / West Chicago, Il 60185	т.т21
s/N414A0645		REC. HR ME

т.т. 2137.0

REC. HR METER 2137.0

AIRFRAME LOG

- 3) Replaced the LH & RH hydraulic filters. Next replacement is due in 500 hours @ 2637.0 total time.
- 4) Replaced the worn brake disc with new 164-06406 Cleveland assemblies.

5) Replaced the LH & RH brake linings.

- 6) Disassemvbled the leaking RH main strut. Replaced the seals and scraper. Reassembled and serviced with 5606 and nitrogen as per Cessna Service Manual.
- 7) Replaced the shimmy dampener seals and serviced with 5606.

8) Replaced one nose wheel bearing and race.

9) Reattached the loose nose gear door seal felt strip.

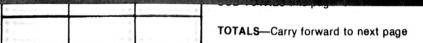
10) Removed the leaking RH main uplock actuator. Replaced all seals; reassembled and tested.

11) Replaced the LH engine propeller control cable.

- 12) Replaced the LH engine throttle control cable. Rigged both cables for proper travels and control alignment.
- 13) Serviced the air-conditioning system after the evaporaters were reinstalled due to engine control replacement.
- 14) Installed a rubber protective strip on the bulkhead cut out for the LH evaporator blower.
- 15) Replaced the kinked LH surface de-ice pressure line under the turbo.

16) Replaced the inoperative tail nav light.

Continued Next Page----



Page	No		
TYPE N#_	Cessna 414A 6815T	JA AIR CENTER DuPage Airport / West Chicago, Il 60185	т.т2137.0
S/N_	414A0645	AIRFRAME LOG	REC. HR METER
17) 18) 19) 20) 21) 22) 23) 24) 25) 26) 27)	Serviced the oxygen some Replaced loose and misseplaced the failing Replaced the defective Removed and cleaned the Replaced the left hand Replaced the broken by Repaired and installed Replaced the left hand Replaced the left hand Replaced the defective at previous test as perequirements. Next in Replaced the failing in P/N 2B7-290H S/N 6E904 Complied with AD82-07-	e at the flap pre-select switches. ystem to proper pressure. ssing roll pins in the pilot's seat to front and rear cabin door extend cable e RH front belly drain seals. he outflow and safety valves. d and right hand pressurization dump of attery vent tube. d the broken left hand arm rest forward and right hand fuel filler placards e left hand forward and aft fuel inlet er AD93-05-03. This removes restricted aspection is required in 200 hours @ 200 cright hand boost pump with an Airborne en all and right hand boost pump with an Airborne en all and right hand boost pump with an Airborne en all and right hand boost pump with an Airborne en all and right hand boost pump with an Airborne en all and right hand boost pump with an Airborne en all and right hand boost pump with an Airborne en all all all all all all all all all al	valve o-rings. rd of the cabin door. t valves found defective ions on unusable fuel 2236.7 hours total time. e overhauled assembly
	heater inspection. Ne time of 1143.3 or 24 m	ext inspection is due in 100 heater honorths.	ours at a heater meter
		Continued Next Page	
	Cessna 414A	JA AIR CENTER	TT 2137.0
N# S/N	6815T	DuPage Airport / West Chicago, Il 60185	REC. HR METER 2137.0
		AIRFRAME LOG	NEO. TIN MICTER
31) 32)	Replaced the emergency Replaced the right hand	age door tumbler right hand side. door seal. d engine waste-gate vee clamp P/N U84 tensions to specifications as per Ce le tensions to specifications as per ted and checked for proper operation.	essna Service Manual. Cessna Service Manual.
2000 2000	Me Color	CIRC	TOTAL TIME 2137.0 I certify that this airframe was Repaired and/or inspected in accordance with AN annual inspection and is approved for return to service. Pertinent details are on file at this Repair Station under W.O. 2 004233 Cone 1004233 Inspector JOLIET AVIONICS, INC. WEST CHICAGO, IL 60185 F.A.A. APPROVED REPAIR STATION # NF2R029L
1/	/		6-20-20-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-

TYPE Cessna 6815T	414A	JA AIR CENTER DuPage Airport / West Chicago, II 60185 T.T. 2213.10
N# 68151 S/N 414A064		AIRFRAME LOG
		le heat light flickering. Found the annunciator panel the swivel and reset the lamp.
		endend
		MAINTENANCE RELEASE
		THE AIRCRAFT, AIRFRAME, ENGINE, APPLIANCE, OR COMPONENT IDENTIFIED WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER
		WORK ORDER NUMBER 004771 DATE 11/22/93 SIGNED The office house FOR
And the second s		JOLIET AVIONICS INC. Dupage Airport
A see		West Chicago, IL 60185 FAA Repair Station NF2R029L
Statement of the statem		
1/4/94	2253.4.	Replaced 6.550A aTTITUSE indicator
5 5 4	j	WITH 5 1/2752D on WOLL 149249
		JOLIET AMONICS, INC. FAA REPAIR CONTRIBETOR CLASS HI
		SIGNATURE Noug Strain Inspector
2/21/94	2267,6	Replaced defective you damper s/w
		11169 with s/N 189, See Wo# 149978
		JOLIET AVIONICS, INC. FAA REPAIR STATION INF2R029L CLASS III.

Р	Page No					the programme and the second
	DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WO SIGNATURE & CERTIFICATE NO. O	
N I	YPE <u>Cessr</u> I# 68157 /N 414A0	T			JA AIR CENTER Airport / West Chicago, Il 60185	T.T. 2253.4 REC, HR METER 2253.4
		1			AIRFRAME LOG	= 64 00100/011
2)	and le with r total	eft cente new 99102 time.	er valve	into a P/i nd -12 ass	difing the left forward wing v /N 9910242-11. Also replaced semblies. Next inspection is	all remaining valves (4)
						AND THE PACE
					THE ARCRAFT, ARGRAME, E REPARED AND INSPECTED THE FEDERAL AMATION AG	AINTENANCE RELEASE ENGRE, AMPLIANCE, OR COMPONENT IDENTIFED WAS D IN ACCORDANCE WITH CURRENT REGULATIONS CO GENCY AND IS APPROVED FOR RETURN TO SERVICE ENERGY AND IS ON FILE AT THIS REPAIR STATION UNDER
					WORK ORDER NUMBER	005236
					DATE 02/04/94	
			My walk was		Dupage A West Chic	AVONICS INC. Virport cago, IL 60185 air Station NF2R029L
720		ssna 414A	-1	DuPage	JA AIR CENTER Airport / West Chicago, Il 60185	т.т. 2253.4
200	N# <u>681</u> S/N 414	5T +A0645		Dur ng.	Airport / West Chicago, it 0010)	REC. HR METER
		7			AIRFRAME LOG	NEO. HA METER
2; 3; 4; 5; 6;	The en manifo altern 118 an compar 2) Replac S/N AT 4) Remove 127930 Modifi and in the ai	ngine was old valve hator S/N hd oil continent. ced all for the factor of the Sland the Sland the lost alled in the loirframe and the loirframe and the sland the loirframe and the sland the loirframe and the sland th	s supplied S/N F169 N D219313. Doler S/N Four enging Failing ta Lick mags H) 10-3494 Lower enging the attack Lower enging and proper	d with Sli 9305C, met .0, turbo 133. The ne Lord mo ach genera and harne 460-1 S/N ine nacell ching nut ine nacell r alignmer	o a cracked case. Installed a ick mags, harness, plugs, fue tering unit S/N F1693111A, sta S/N UB0113, controller S/N UB e engine was installed after ount assemblies. ator with an exchange Aero Eleess. Installed TCM magnetos 1259304FR and TCM harness to le and new oil cooler for proplates. le for proper fit of the indunt to the throttle body. To the aft engine nacelle.	el pump S/N F169305B, carter S/N S189331, UH0103, heat exchanger S/N cleaning the engine Lectric unit P/N 22A667ECH (LH) 10-349420-1 S/N o meet RAM specifications. Oper fit to the airframe action heat exchanger to
	attach 8) The ex and wy	hing hard xhaust sy ye assemb	iware, nut ystem was oly P/N 99	t plates a cleaned a 910299-9 d	and baffle seals to the new a and inspected. Found the elb cracked. Sent the assemblies haust after replacing the att Continued Next Page	assembly. bow assembly P/N 99102990-1 s to Knisley Exhaust System taching hardware.

	The state of the s	Physical Company	and the state of t
	for reseal, bearing repl. 10) Replaced worn propeller 11) Repaired cracked exhaus 12) Replaced crushed vacuum one to the de-ice loadi 13) The coolent tank P/N 13 welded line assembly ru assembly. 14) TCM/RAM coolent line and the engine. 15) Serviced and bled the co	pump aluminum outlet line to the suring valve assembly. 30-2K S/N 005 was sent to RAM Aircraft bibling on the tank. Reinstalled tank d clamp inspection dated 09/17/93 was colent system with ETX6024M MA TCM Service ManualsTHE AIRCRAFT, ARFRAME, E REPAIRED AND INSPECTED THE FEDERAL AVAITION AGE PERTINENT DETAILS OF THE BOOST and fuel flow WORK ORDER NUMBER DATE 02/04/94 SG JOLIET A'Dupage Air West Chica	r boots as necessary. The slip ring. The sli
The second secon		JA AIR CENTER DuPage Airport / West Chicago, Il 60185 AIRFRAME LOG the LH engine and related systems:	T.T. 2253.4 REC. HR METER 2253.4

1) Removed the coolent radiator from the aft engine nacelle and sent to RAM Aircraft for flushing. Reinstalled the radiator after flushing. Replaced the coolent line seals. Reassembled the airframe structure as per RAM Service Manual.

2) Removed the defective coolent tank P/N 1330-2K S/N 21 and sent to RAM Aircraft for repairs to the welded line assemblies rubbing on the S bend. Reinstalled the tank after repairs as per RAM Service Manual.

3) Removed the leaking oil cooler line adapter and replaced the gasket.

4) Complied with TCM/RAM coolent line clamp inspection dated 09/17/93 by inspection of the clamps and lines. All clamps were replaced due to excessive looseness. Replaced the clamps for the coolent lines in the aft nacelle to the radiator P/N's 652298 and 14J02-12 A (clamps).

5) Replaced the defective coolent lines P/N's 652344 (2 ea.), 652292, 649800, 652291, 652290 and 652293 due to clamp wear and chafe marks from contact with other engine

compartment lines.

6) Replaced the coolent tank pressure relief valve.

7) Serviced and bled the coolent system with ETX6024M coolent blend as per RAM and TCM Service Manual.

Continued Next Page---

TYPE <u>Cessna 414A</u> N# 6815T	JA AIR CENTER DuPage Airport / West Chicago, Il 60185	т.т. 225	3.4
S/N 414A0645	AIRFRAME LOG	REC. HR METER_	2253.4
Propeller Services for the propeller after re	P/N 3AF36C514-C/G-80VMFA-2 S/N 902167 reseal and de-icer boot replacement a epairs as per McCauley and RAM Service cer brushes and set brush alignment.	is necessary. R	craft einstalled
	CIRC		
		ITENANCE RELEASE	
		I accordance with curren I cy and is approved fo r re	T REGULATIONS OF TURN TO SERVICE.
	WORK ORDER NUMBER	005234	
	DATE 02/04/94 SCI		alus OR
	Dupage Airp West Chicag		
A - Company to the Company to the Company of the Co	To the part of		
6			State Special and April 1990
		. G.	
Cessna 414A N6815T D	J.A. Air Center uPage Airport;,West Chicago, IL 60185 Airframe Log;		
forward and aft f	sna Service Bulletin# MEB93-10. Remove uel inlet valves and modified by instal talled and closed up wing.	lling Service	
W. C.	Cita	A THE RESIDENCE AND PROPERTY OF THE PERSON NAMED IN COLUMN TWO	
	MAINTENANCE RELEAS	· ·	
	THE AIRCRAFT, AIRFRAME, ENGINE, AI-PLIANCE, OR COL	APONENT IDENTIFIED WAS	
	REPAIRED AND INSPECTED IN ACCORDANCE WITH CU THE FEDERAL AVIATION AGENCY AND IS APPROVED FO PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS	RRENT REGULATIONS OF OR RETURN TO SERVICE.	
7	WORK ORDER NUMBER 005194	24-1	-
	JOLIET AVIONICS INC. Dupage Airport West Chicago, IL. 60185 FAA Repair Station NF2R029L	S TOR	3
	SUB-TOTALS this page		1

	TYPE Cessna 414A DuPage Alement / West Chicago 11 60185 T.T.	2273.4
N#	N# 6815T DuPage Airport / West Chicago, Il 60185	0070 /
S/I		HR METER 2273.4
	AIRFRAME LOG	
1)	L) Removed TSIOL-550-A S/N 800530 due to a cracked case. Installed the TSIOL-550-A S/N 800581. The engine was supplied with Slick mags, fuel pump 646210-11 S/N A009408B, manifold valve 646508-8A5 S/N A00 unit, starter 646275 S/N Z-169315, alternator 649304, turbo 652964 controller 633388-10 S/N WL-L0101, heat exchanger, oil cooler 1081 radiator 10817A S/N 14B. The engine was installed after cleaning compartment.	harness, plugs, 69412C, metering S/N WJ-L0102, 4A S/N 110 and
2)	2) Replaced all four Lord mount assemblies.	
3)	Removed the Slick mags and harness. Installed TCM magnetos (LH) 10 1289330FR, (RH) 10-349460-1 S/N K249301FR and harness to meet RAM (A) Modified the lower engine nacelle and new oil cooler for proper fit	specifications.
	and installed the attaching hardware.	
5)	b) Modified the lower engine nacelle for proper fit of the induction he the airframe and proper alignment to the throttle body.	neat exchanger to
6)	6) Fitted the new coolent radiator to the aft engine nacelle. Transfe	
71	attaching hardware, nut plates and baffle seals to the new assembly	
1)	7) The exhaust system was cleaned and inspected. Found the elbow P/N wye assembly P/N 9910299-9 cracked. Sent the assemblies to Knisley	
	for repair. Reassembled the exhaust after repair. Replaced the at	,
8)	3) The propeller 3AF36C514-C/G-80VMFA-2 S/N 901903 with a total time of	
6	reinstalled with new attaching hardware.	
)) Repaired the cracked exhaust system heat shields.)) Replaced the failing tach generator with an Aero Electric Inc. over	houl orchance
	P/N 22A667ECH S/N AT-6077.	naur exchange unit
11)) Sent the leaking hydraulic pump to B&S Aircraft Parts for overhaul S/N 0471.	P/N 24194-LAA
12)	The govenor DCFS290D9/T3 S/N 92001, vacuum pump 442CW S/N 11AF1170 C165006-0107 were reused. Ref. the airframe log for time in service	and waste gate
13)	S) Serviced and bled the coolent system with ETX6024M coolent as per R Manuals. MAINTENAN	AM & TCM Service
14)) Serviced the engine with 20W50 Type M Phillips oil.	IANCE, OR COMPONENT IDENTIFIED WAS
h. da 1	REPAIRED AND INSPECTED IN ACCORD. THE FEDERAL AVIATION AGENCY AND IS PERTINENT DETAILS OF THE REPAIR ARE	ANCE WITH CURRENT REGULATIONS, OF S APPROVED FOR RETURN TO SERVICE. ON FILE AT THIS REPAIR STATION UNDER
	WORK ORDER NUMBER	005205
	DATE 04/08/94 SCHED X	quel tolealuson
	JOLIET AVIONICS	INC.
	Dupage Airport West Chicago, IL. 60 FAA Repair Station)185
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	Joliet Avionics DuPage Airport West Chicago, IL 6	Date: 7/29/94 N#: 68/5 7 WO# 153209
	DuPage Airport West Chicago, IL 6 Tested Altimeter	N#: <u>68/5 T</u>
	Tested Altimeter	30185 WO# 1522A9
	Tested Altimeter	VVU# _/3320/
	100	r(s), Altitude Reporting and Statis System(s) in
	accordance with	Part 43, Appendix "E" for compliance with FAR 91.411
	Pilot's Altin	neter P/N _5934 S/N _V5/16 Range 30k
		neter P/N <u>5934</u> S/N <u>V4998</u> Range <u>30</u> /K
	1	194 Model: RT-459A S/N: 9645 / 9310
	Transponder Tes	sted in Accordance with Part 43, Appendix "F" for FAR 91.413 this date.
	F.A.A. REPAIR ST	TATION #NF2R029L, Class IH
1 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Signature
, &		Inspector
Cessna	414A	J.A. Air Center
N6815T	DuPage Airpor	et, West Chicago, IL 60185
		Airframe Log: Hobbs: 2310.1
	aired broken prop o	de-ice boot lead on RH propeller. Operational
		MAINTENANCE RELEASE
		THE AIRCRAFT, AIRFRAME, ENGINE, AI-PLIANCE, OR COMPONENT IDENTIFIED WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER
		WORK ORDER NUMBER 005525
		DATE 05/26/94 SIGNED The FOR
1		JOLIET AVIONICS INC. Dupage Airport West Chicago, IL 60185 FAA Repair Station NF2R029L
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DATE TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TYPE	ssna 414A LST LAO645 ime this a Service a Service and trave required. It is checked and sumps. It teste and oper a ELT. Thecks were and service and sumps. It is the brief and the brief and the brief and the brief and the LH and the and the cer and the LH and the and th	aircraft Manual a light con light con The hea All and d. Elect ation. S he aircra e perform iced the ected and iced. Th r RAM Ser and placa e checked epaired, oken LH i ssing LH ing fuel & RH wir shorted rrected s iling LH ing align engine n sted. vacuum p ntral vac cotal tim	JA AIR CENTER DuPage Airport/West Chicago, IL 60185 Repair Station #NF2R029L AIRFRAME LOG was opened, cleaned, inspected and serviced as and RAM Aircraft Maintenance Manual for an Annual atrols were checked for proper condition, cable ricated the labyrinth seals. Lubricated the air-d the outflow and safety valves. Inspected the lly drain seals, door and window seals. The fuel dition, security and leaks. Serviced the fuel ater system was checked for condition, operation ti-ice and de-ice systems were serviced and trical and lighting systems were checked for proper Serviced the aircraft battery. Functionally aft was jacked. Landing gear operational and ned. Cleaned and lubricated the gear system. Hydraulic system. Wheels were removed. Bearings it greased. The brakes and brake system were ne airframe mounted coolant systems were inspected to the interior components, seat structures after or proper condition, security and location. replaced or corrected: fuel sump drain valve with a new unit from RAM. & RH fuel quantity placards. In fitting. ug fuel sumps drain valves with new type valve RH propeller de-icer system. Relocated harness in forts to ground. propeller de-icer brush block assembly and set ment. use cap inner and outer inlet de-icer heater ump with a new Airborne 442CW-5 S/N O5AKOOO406. uum filter. Next replacement is due in 500 hours e or on condition. filters. Parts replacement was checked from filter is due for replacement @ 2773.3 hours; RH ement @ 2536.7 hours total time. oning hydraulic system filter. Next replacement
is due	in 400 ho	ours @ 27	59.0 hours total time. Continued Next Page
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	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WO	
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		,		JA AIR CENTER	
	TYPE (Cessna 41	4A r	JA AIR CENTER DuPage Airport / West Chicago, IL 60185	2359.0
	N #	6815Т		Repair Station #NF2R029L	
	S/N	414A0645		•	REC. HR METER 2359.0
1,		. 1 . 1		AIRFRAME LOG	
12	() Repair	ed the RH	engine i	induction air filter cannist	er cover by installing
15	anti-ci	lad prote	e to stop	damage to the air filter. oxy on the exposed heater ele	ements of the stall
		etector v		oxy on the exposed neater en	cheffes of the staff
14				for the LH cowl nose cap li	ght and replaced lamp.
15) Replace	ed the EL	T battery	; new battery expiration da	te is 08/96.
16) Replace	ed the de	fective h	neater hobbs meter. Old met	er reading was 1086.1
				time. Next compliance of	AD82-07-03 Janitrol
1.				ours heater hobbs meter.	0 2052 / 1 +1
				alve inspection is next due	2003.4 hours total
15		s per MER		Le tensions to specification	s as per Cessona 4144
1		e Manual.		to specification	o ab per debbita 4144
19				rization sonic venturi to he	ose clamp.
				se baggage door lock arm.	
21				n gear assemblies. Removed	
				runnion supports. Reinstall	
2,				er Cessna Technical Departmen	
				wer wing skins aft of the who outer doubler.	eel well opening by
23				loor rigging to stop stressing	og of the aft whool
				oved the frozen nose wheel as	
cc) Replaced the nose wheel Li	
				theel axle bolt. 27) Replace	
				rvoir cap gasket. 28) Remove	
				exhaust affected areas, neut	
				Lap well areas, removed corre omate. 30) Removed cabin pre	
				ilkhead supports over the nos	
				and treated affected areas.	
				cs. 31) The aircraft was	DATE 08/10/94 TACH 2359.0
gr	ound run	and flig		ed for proper operation.	TOTAL TIME 2359.0
_				end	was Repaired and/or inspected in acco
					ance with AN annual inspect
					and is approved for return to servi
					Pertinent details are on the at this Res
					THE THE ME Inspec
					JOLIET AVIONICS, INC.
WEST CHICAGO, IL 6018					F.A.A. APPROVED REPAIR
_	F.A.A. APPROVED REPAIR STATION # NF2RO29		and the second section of the section		
					EINIUN E Nº 2RUZ SE
					SININE Nº 2812 A
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TYPE Cessna 414A N # 6815T S/N 41440645	JA AIR CENTER DuPage Airport/West Chicago, IL 60185 Repair Station #NF2R029L AIRFRAME LOG	T.T2426.3 REC. HR METER2426.3
Remove & replace nose tire wit	h new Flight Custom II tire.	_
		-
	MAINTENANCE REL	EASE
	THE AIRCRAFT, AIRFRAME, ENGINE, APPLIANCE, OF REPAIRED AND INSPECTED IN ACCORDANCE WIT THE FEDERAL AVIATION AGENCY AND IS APPROV PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT	TH CURRENT REGULATIONS OF
	WORK ORDER NUMBER CO6062 DATE 11/15/94 SIGNED COMP JOLIET AVIONICS INC. Dupage Airport West Chicago, IL 60185	FOR _
	FAA Repair Station NF2R029	L
	The second secon	hetes —
pressurization. Replaced bad ho wire harmess at forward pressur 2. Removed IH fuel drain, clear 3. Right alternator intermittan		or leaks. Resealed st loose & hitting
CWILING Mainver & replaced and	MAINTENANCE	
	THE AIRCRAFT, AIRFRAME, ENGINE, APPLIAN REPAIRED AND INSPECTED IN ACCORDANTHE FEDERAL AVIATION AGENCY AND IS A PERTINENT DETAILS OF THE REPAIR ARE ON WORK ORDER NUMBER CO616 DATE 12/13/94 SIGNED JOLIET AVIONICS DuPage Airport West Chicago, IL 60 FAA Repair Station NI	NCE, OR COMPONENT IDENTIFIED WAS ICE WITH CURRENT REGULATIONS OF APPROVED FOR RETURN TO SERVICE. IFILE AY THIS REPAIR STATION UNDER 64 INC. 185
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