

AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

AIRCRAFT

- | | | |
|----|--|-------------|
| 1. | Nationality and Registration | N513DS |
| 2. | Manufacturer's Designation | DA40 |
| 3. | Manufacturer's Serial
Number | 40.623 |
| 4. | Type Approval or
Specification Number | A-224/A47CE |
| 5. | Date of Manufacture | 2006 |
| 6. | Aircraft Inspection Cycle | |

AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE RECORD</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	0	0	0	0	AIRCRAFT NEW WITH HARTZELL PROPELLER (INSTALLED AS PER STE No. SA018202 H)



DIAMOND AIRCRAFT INDUSTRIES INC.
D.O.T. APPROVED MANUFACTURER #161-93

SERIAL NUMBER REGISTRATION MARK

40.623 **N513DS**



I certify that the ATC Transponder & Altitude Reporting System(s) have been tested in Accordance with Standard 571, Appendix F F.A.R. 91:217: & F.A.R. 91:413.

DATE INSPECTOR

06 February, 2006

[Signature] DA
Q 42



03 FEBRUARY 2006 S/N 40.623
COMPASS DEVIATION, ALL ELECTRICS ON

FOR	N	30	60	E	120	150
STEER	360	030	060	090	120	150
FOR	S	210	240	W	300	330
STEER	180	210	240	270	300	331



INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE INSPECTOR

02 February, 2006

[Signature] DA
Q 13

FEB 06 2006	0	0	0	0	AIRCRAFT SERVICEABLE FOR FLIGHT
FEB 06 2006				2.5	
FEB 07 2006				2.5	AIRCRAFT SERVICEABLE FOR FLIGHT
FEB 07 2006				3.8	
FEB 07 2006				4.1	
FEB 23 2006				4.1	ALL DISCREPANCIES RECTIFIED



DIAMOND AIRCRAFT INDUSTRIES INC.
D.O.T. APPROVED MANUFACTURER #161-93

I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO THE APPROVED TYPE DESIGN DATA AND IS IN A FIT AND SAFE STATE FOR FLIGHT.

DATE
FEB 23 2006

INSPECTOR

[Signature] DA
Q 42

4.1

CARRIED FORWARD

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT	SIGNATURE	LICENCE NUMBER
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		
GARMIN INTEGRATED AVIONICS SYSTEM INSTALLED AS PER STC No. SA0125YWT APPROX. 1		DA Q 42



I certify that the Static Pressure system has been inspected and tested in accordance with Standard 571, Appendix B of the Airworthiness Manual, and F.A.R. 91:411

DATE 06 February, 2006 INSPECTOR DA
Q 42



The ELT was tested and inspected in Accordance with Standard 571, Appendix G of the Airworthiness Manual and F.A.R. 91:207(d)

ANNUAL INSPECTION DUE: FEBRUARY 2007
BATTERY DUE: APRIL 2008

DATE 06 February, 2006 INSPECTOR DA
Q 42



DIAMOND AIRCRAFT INDUSTRIES INC.
D.O.T. APPROVED MANUFACTURER #161-93

THIS AIRCRAFT WAS INSPECTED FOR CONFORMITY TO APPLICABLE COMPANY RELEASED DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONCESSIONS) AND IS SERVICEABLE.

DATE 06 February, 2006 INSPECTOR DA
Q 42

		DA Q 42
		DA Q 42
		DA Q 42
		DA Q 42
		DA Q 42
		DA Q 42

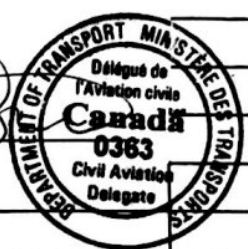


U.S. Standard Airworthiness Certificate, issued:

(Date) FEB 28 2006, has been installed in the aircraft on behalf of NE-MIDO-46 on:

(Date) FEB 28 2006

(Print) R. SALTON (Signature)



AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD			4.1		

Engine Model: Engine S/N: N513DS
 Lvc. IO-360-M1A L-32254-51A S/N: 40.623
 Engine Total Time: Hobbs Time: Date:
 67.9 84.9 10/24/2006

Removed Alternator P/N: ALU-8521LS, S/N: F040071, and installed Factory New Alternator P/N: ALU-8521LS, S/N: G051004 In accordance with the Diamond DA40 Series AMM, Chapter 24. System operational check normal.

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS06-1217

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR AN INSPECTION PROGRAM REQUIRED BY FAR 91.409 (F) (3), AND IS APPROVED FOR RETURN TO SERVICE.

S.O. #. LS06-1217

ACFT. TOTAL TIME: 67.9 Hrs.

AUTHORIZED SIGNATURE: Michael S. Herbert AP3153561



 **WEST COAST** Charters, Inc.

2881 E. Spring Street, Long Beach, CA 90806
Office: 562-981-6064 Fax: 562-981-6071

N513DS SN: 40.623 DA40-180
 Total Time: Hobbs Time: Date:
 82.3 102.7 11/17/2006

Performed a 100 Hour/Annual Inspection in accordance with 14 CFR Part 43, appendix D and the Diamond DA 40 Series Aircraft Maintenance Manual, Rev. 4. Accomplished lubrication and servicing schedule. Removed, serviced, and charged aircraft battery. Inspected ELT in accordance with 14 CFR Part 91.207 (d). Battery expiration date 3/2008. Inspected and tested the Emergency Battery System. Complied with AD 02-26-01 (External Fuel Injection Lines), dated 01/31/03, by visual inspection. Next due Tach: 182.3. AD 84-26-02 (Paper Induction Air Filters), dated 01/29/85 is due at Tach: 500. AD 93-05-06 (Ignition Switches), dated 4/29/93, is due at 2000 hrs. AD 06-23-04 (G1000 Fuel Indicating System), dated 11/28/2006, is PCW by compliance with MSB 40-048/2 on 10/14/2006. AD's checked through Tdata release # 2006-23.

ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. # LS06-1232.

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR AN INSPECTION PROGRAM REQUIRED BY FAR 91.409 (F) (3), AND IS APPROVED FOR RETURN TO SERVICE.

AUTHORIZED SIGNATURE: Michael S. Herbert AP3153561IA



 **WEST COAST** Charters, Inc.

2881 E. Spring Street, Long Beach, CA 90806
Office: 562-981-6064 Fax: 562-981-6071


CARRIED FORWARD

ENGINEERING RECORD

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER

 DA
Q 42

Make: Diamond
 Model: DA40
 S/N: 40.623
 Reg. Number: N513DS

Date: 07/17/2007
 Tach: 225.9
 Hobbs: 266.2

JETSTREAM
AVIATION
 3653 Rickenbacker Street, Suite 212
 Boise, ID 83705
 208-345-3730

Airframe Logbook Entry

Performed a 50 hour inspection in accordance with Diamond DA40 Maintenance Manual.. Drained oil and replaced filter with Ch48110-1 Filter, opened and inspected oil filter -No Contaminates Noted. Added 8 quarts of Aero Shell W100. Ground run/ leak check satisfactory- 0 defects noted.

This aircraft and/or component(s) identified above was repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy with respect to the work performed, subsequently approved to return to service.

Craig W. Morfitt *Craig w morfitt*
 A&P 3240362

December 5, 2007

N513DS Aircraft Log

Hobbs: 343.7 TTIS: 343.7

Aircraft was found to be unairworthy due to aircraft out of annual. A special flight permit has been issued for the intended flight from Nampa Idaho direct North Las Vegas Nevada. Special flight permit was issued by the FISDO in Boise Idaho per Craig Karel. This aircraft N513DS is airworthy for this intended Special flight permit. All required documents are in place and all ad's checked for special flight permit. The permit expires on December 15 2007.

Derick Johns A&P 3228751

Derick Johns

I certify that the Altimeter, Automatic altitude reporting, Static systems and ATC Transponder tests and inspections required by FAR 91.411 and 91.413 have been performed and found to comply with FAR Part 43, Appendix E and F.
 The altimeter(s) were tested to 20,000 feet.

Sunrise Mountain Avionics
 Repair Station SMCR379X WO No. W02562

Inspector, *Brownberger* Date 12-10-07

AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

MAKE Diamond
MODEL DA40-180
S/N 40 623
REG NO. N513DS
WORK ORDER
5558-12-2007



Southwest Platinum Aviation
2810 Perimeter Road, Suite 102
North Las Vegas, NV 89032
Phone: 702-646-6191

DATE: 12/11/2007
A/C TSN
TACH 297.1

Airframe Entries

(1) This Aircraft has been inspected in accordance with an Annual / 100Hr Inspection and was found to be in airworthy condition....
(5) Complied with FAR 91.207 d. ELT function check and inspection, no defects noted.... (6) Complied with FAR 91.207 d. ELT function check and inspection, no defects noted. Battery due date 3 APRIL 2008.... (8) Checked weight of fire extinguisher and found to be within limits as per manufacturers maintenance instructions.... (10) Complied with AD note research, all AD's complied with to date.... (12) CW AD 2007-17-06 By inspection of nose gear fork spindle, no cracks found at this time, next inspection due at next 100hr or annual which ever comes first.... (13) CW AD2007-11-21 Inspected Universal joints on the fuel selector, IAW AD instructions and found to be airworthy at this time, recurring inspection due every 50hrs until the U-joint is replaced.

This aircraft N513DS and/or it's component(s) was repaired or inspected in accordance with current Federal Aviation Regulations and was found Airworthy, and is approved for return to service. *Pertinent details of the work performed are on file at this repair station under Work Order No. 5558-12-2007

DATE: 12/11/2007

SIGNED:

Kyle Hunsaker, IA: 530294189

Work Order: 5558-12-2007

Printed by EBis 3 (datcomedia.com)

07 23 2008

The CRS/BARD knobs on installed displays were checked for interference with none found per Garmin service Next 0824
[Signature]

REDMOND AIR LLC 705 SE Salmon Ave. Redmond, OR 97756 541-923-1355 *Redmond Air*

WORKORDER 3197 9-25-2008
DIAMOND DA40 N513DS S/N 40-623

HOBBS TIME 496.8

REPLACED MIXTURE CABLE.
DRESSED PROP AS REQUIRED.
ADJUSTED OIL PRESSURE WITHIN LIMITS.

I CERTIFY THIS AIRFRAME HAS BEEN INSPECTED IAW AC 43.13 AND APPLICABLE DIAMOND MANUALS AND IS DETERMINED TO BE IN AIRWORTHY CONDITION.

BRUCE J. SNOOK

Q9RR266Y

[Signature of Bruce J. Snook]

CARRIED FORWARD

ENGINEERING RECORD

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER

REDMOND AIR LLC 705 SE Salmon Ave. Redmond, OR 97756 541-923-1355 

WORKORDER 3198 1-22-2009
DIAMOND DA40 N513DS S/N 40-623 HOBBS TIME 544.5

COMPLIED WITH A 100 HOUR/ANNUAL INSPECTION PER DIAMOND AIRCRAFT MAINTENANCE MANUAL TIME LIMITS AND MAINTENANCE CHECKS 05-20-00.

REPLACED PROP SEAL PART # A1633-11.

COMPLIED WITH 500 HOUR MAG INSPECTION PER UNISOM L1037 4200/6200 MAGNETO MAINTENANCE AND OVERHAUL MANUAL, TELEDYNE CONTINENTAL CRITICAL SERVICE BULLETIN CSB08-9, SLICK SERVICE BULLETIN SB02-08 AND SLICK SERVICE BULLETIN SB3-08.

BLEW BRAKES AT CUSTOMER REQUEST.

VERIFIED TORQUE OF ENGINE MOUNT PER DIAMOND MAINTENANCE MANUAL.

LUBED AND CLEANED ALTERNATE AIR CABLE.

REPLACED CRANK MAIN SEAL.

REPAIRED SMALL HOLE IN NOSE WHEEL PANT.

RETORQUED STORM WINDOW LATCHES.

COMPIED WITH AD 2007-17-06, NOSE GEAR LEG PIVOT AXLE INSPECTION. (MSB40-046/1)

COMPLIED WITH AD 2008-14-07, FUEL INJECTION LINE CLAMPING. (SB 342E)

COMPLIED WITH AD 2008-08-14, TO PREVENT A LEAN RUNNING ENGINE. (SB PRS107 REV 1).

DRAINED OIL AND TOOK SOAP SAMPLE, REMOVED AND INSPECTED FILTER, INSTALLED NEW CH48110-1 FILTER AND SERVICED OIL WITH AEROSHELL 15-50.

REPLACED ALL SPARK PLUGS, PARTY # REM38E.

COMPLIED WITH COMPRESSION CHECK AS FOLLOWS: #1 - 71, #2 - 72, #3 - 72, #4 - 71.

REMOVED RIGHT MAIN LANDING GEAR TIRE AND TUBE PART # 156E361-3 SERIAL # 504300098.

INSTALLED TIRE PART # 156E66-4, SERIAL # 80750244.

REMOVED LEFT MAIN LANDING GEAR TIRE AND TUBE PART # 156E61-3, SERIAL # 50440158.

INSTALLED NEW TIRE AND TUBE PART # 156E66-4, SERIAL # 80740474.

I CERTIFY THIS AIRFRAME HAS BEEN INSPECTED IAW AC 43.13 AND APPLICABLE DIAMOND MANUALS FOR A 100 HOUR/ ANNUAL INSPECTION AND IS DETERMINED TO BE IN AIRWORTHY CONDITION.

BRUCE J. SNOOK Q9RR266Y



REDMOND AIR LLC 705 SE Salmon Ave. Redmond, OR 97756 541-923-1355 

WORKORDER 3198 1-22-2009
DIAMOND DA40 N513DS S/N 40-623 HOBBS TIME 544.5

COMPLIED WITH ELT INSPECTION.
REPLACED ELT BATTERIES. DUE AGAIN JANUARY 2011

BRUCE J. SNOOK Q9RR266Y



AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT					

February 25, 2010 S/N40.623 Diamond Star DA40 N513DS TACH: 602.1 TTAF:602.1
ETSN: 602.1 PTSN: 602.1

Performed Annual Inspection in accordance w/ DA40 Inspection Guide. C/W ELT Test in accordance w/ FAR 91.207(d), replaced 8 Dcell batteries w/ new, batteries due 2/2011. Pitot Static/Transponder Certification performed by Kingman Airline Services, Inc. FAA CRS# K9GR490Y, W/O 178872. Replaced Heat Muffler Brace w/ P/N D41-7806-20-01. Complied w/ the following AD's.

06-23-04 Garmin 1000 fuel indication errors; PCW in accordance w/ MSB 40-048/2 on 10/14/06.

08-14-07 Fuel injection lines; Inspected injection lines and supports found to comply w/ Lycoming SB 342E, diagram 1.

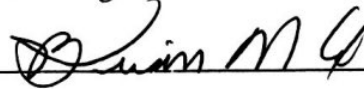
09-10-04 Nose gear pivot cracks; Lifted nose, removed nose fork pivot and cleaned, dye checked area as indicated by MSB D4-046/3 and found no indication of cracks, greased pivot assy and reassembled, set pivot pressure to 10.9lbs as per maint. manual.

Performed compression test as follows: 1) 79/80 2) 79/80 3) 79/80 4) 77/80. I certify that this Airframe has been inspected in accordance w/ an Annual Inspection and was found airworthy.

AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744

A&P518661132IA

Brain N Cox



Aircraft Logbook Entry

AC type: DIAMOND AC model: DA40
 ACsn: 40.623
 ACreg: N513DS AC time: 690.5

Complied with F.A.R. 91-413 and F.A.R. 43 App. F

#1 Transponder P/N: 1000MFD/PFD

#1 Transponder S/N:

Date: 2/25/2010

#2 Transponder P/N:

#2 Transponder S/N:

Date: 2/25/2010

Complied with F.A.R. 91-413 and F.A.R. 43 App. E and F.A.R. 91.217

The unit/system above was inspected I.A.W. the regulations of the FAA and is approved for return to service. Details are on file at this repair station under

Work order # 178872

Signature Jan R. Under 1193117041

KINGMAN AIRLINE SERVICES, INC.
 FAA Approved Repair Station K9GR490Y
 Kingman, AZ. 86401

Form GA-100

Aircraft Logbook Entry

AC type: DIAMOND AC model: DA40
 ACsn: 40.623
 ACreg: N513DS AC time: 690.5

Complied with F.A.R. 91-411 and F.A.R. 43 App. E(B)

#1 Altimeter P/N: 1000MFD/PFD

#1 Altimeter S/N:

Certified to 18,000.00 feet on 2/25/2010

#2 Altimeter P/N:

#2 Altimeter S/N:

Certified to 18,000.00 feet on 2/25/2010

The static system was tested on 2/25/2010 as required by F.A.R. 91.911 and meets the requirements of F.A.R. 43 App. E(d)

The unit/system above was inspected I.A.W. the regulations of the FAA and is approved for return to service. Details are on file at this repair station under

Work order # 178872

Signature Jan R. Under 1193117041

KINGMAN AIRLINE SERVICES, INC.
 FAA Approved Repair Station K9GR490Y
 Kingman, AZ. 86401

Form GA-101

CARRIED FORWARD

ENGINEERING RECORD

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
--	-----------	----------------

March 1, 2011 S/N40.623 Diamond Star DA40 N513DS TACH: 625.9 TTAF: 625.9
 ETSN: 625.9 PTSN: 625.9

Performed Annual Inspection in accordance with DA40 Inspection Guide. C/W ELT Test in accordance with FAR 91.207(d) replaced 8 Dcell batteries with new batteries due 2/2011. Complied with the following AD's.

09-10-04 Nose gear pivot cracks; Lifted nose, removed nose fork pivot and cleaned, dye checked area as indicated by MSB D4-046/3 and found no indication of cracks, greased pivot assy. and reassembled, set pivot pressure to 10.9lbs as per maint. manual.

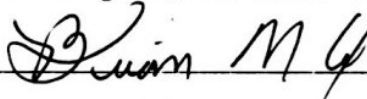
10-04-16 Halon fire extinguisher; Found N/A by type and MFG.

I certify that this Airframe has been inspected in accordance with an Annual Inspection and was found to be in airworthy condition this date.

AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744

A&P3486712IA

Brian N Cox



June 27, 2011 S/N40.623 Diamond Star DA40 N513DS TACH: 643.0 TTAF: 643.0
 ETSN: 643.0 PTSN: 643.0

Complied with the following AD:

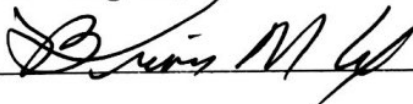
10-25-01 Baggage door retaining bracket Installed kit p/n MSB-40-070-KIT in accordance with MSB 40-070.

Removed and replaced muffler shroud support bar with new bar p/n D41-7806-20-01.
 Aircraft returned to service.

AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744

A&P3486712IA

Brian N Cox



~~07-18-2012 774.8 TTSN THIS AIRCRAFT HAS BEEN INSPECTED AND WAS FOUND TO BE SAFE FOR THE INTENDED FLIGHT - SEE SPECIAL FLIGHT PERMIT DATED 5/14/12 - SEE 536-73-1239 APP~~

AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	

JULY 20, 2012 S/N 40.623 Diamond Star DA40 N513DS TACH: 676.4 TTAF: 676.4
ETSN: 676.4 PTSN: 676.4

Performed Annual Inspection in accordance with DA40 Inspection Guide Section 05-28-00 & 05-28-50. C/W ELT Test in accordance with FAR 91.207(d) replaced 8 D cell batteries with new batteries due 7-2013. Complied with the following AD's.

09-10-04 Nose gear pivot cracks; Lifted nose, removed nose fork pivot and cleaned, dye checked area as indicated by MSB D4-046/3 and found no indication of cracks, greased pivot assy. and reassembled, set pivot pressure to 9.7 lbs as per Service Manual.

11-21-10 Air Conditioner Mount N/A by no air conditioner installed

I certify that this Airframe has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition this date.

AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744

A&P3486712IA

Brian N Cox

(Handwritten Signature)

KINGS AVIONICS, INC. 800-939-8412

THIS IS A PERMANENT LOGBOOK ENTRY - PERFORMED TEST & INSPECTIONS LAW FAR 43, APPENDIX E TO COMPLY WITH 91.411; APPENDIX F TO COMPLY WITH FAR 91.413 JOB LOCATION: KHND

STATIC SYS #1 TEST ALT 40K STATIC SYS #2 TEST ALT _____ STATIC SYS #3 TEST ALT _____

	MANUF.	MODEL	PART #	S/N	TESTED TO ALT
ALTIMETER #1	<u>GARMIN</u>	<u>GDU-1040</u>	<u>011-00972-03</u>	<u>89900490</u>	<u>20K</u>
ADC/ENCODER #1	<u>GARMIN</u>	<u>GDC-74A</u>	<u>011-00882-00</u>	<u>47805073</u>	<u>20K</u>
ALTIMETER #2	<u>United</u>	<u>593480-3</u>		<u>450536</u>	<u>20K</u>
ADC/ENCODER #2	—	—	—	—	—
ALTIMETER #3	—	—	—	—	—
TRANSPONDER #1	<u>GARMIN</u>	<u>GTX 33</u>	<u>011-00779-00</u>	<u>89100451</u>	
TRANSPONDER #2	—	—	—	—	—

PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION UNDER W/O # 34608 ACTT 677.0
 AUTH. SIGNATURE (Signature) DATED 7-21-2012 RECERT DUE DATE 07/14 N 513DS

Aviation maintenance release, the above identified aircraft was repaired and inspected in accordance with the current regulations of the FAA and is approved for return to service.

CRS: KD6R661N- KSLC KD6D661N- KSGU KD62661N- KHND FORM KA-12

July 23, 2012 S/N 40-623 Diamond Star DA40 N513DS Tach 681.9

Removed fuel strainer bowl due to a fuel leak discovered the oring had a nick. Installed a new oring p/n ORO375 and reinstalled fuel strainer bowl. Replaced safety wire and leak checked fuel strainer, no leaks found.

Pilot/Owner 3142765 Benjamin Tally Jones

(Handwritten Signature)

ENGINEERING RECORD

5

INSPECTION, REPAIRS & REPLACEMENT

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

Kings Avionics, Inc. 1430 JET STREAM DR. SUITE # 120 HENDERSON, NV 89052 KD62661N
LOG ID# 4175 28-November-2012 WO# 34756/1
N513DS S/N 40-623 DIAMOND AIRCRAFT IND DA40 TACH 747.3

Pg 1 / 1

THIS IS A PERMANENT LOGBOOK ENTRY.

**** ITEM # 34756-1 UPDATE G1000 SOFTWARE TO 0321.22 ****

ACTION: PERFORMED SYSTEM SOFTWARE UPDATE TO 321.22 IAW GARMIN G1000 UPDATE INSTRUCTIONS PN 190-00544-03, REV 9, DATED NOV 2010. UPDATED BOOT BLOCKER IAW SAME INSTRUCTIONS. PERFORMED POST SOFTWARE INSTALLATION INSTRUCTIONS. ALL SYSTEM OP CHECK OK. FINAL INSPECTION OK.

**** ITEM # 34756-3 ALL CHT/EGT INCREASE WHEN UNIT IS HOT ****

ACTION: REMOVED GEA71, PN 011-00831-00, SN 46703703, AND INSTALLED OVERHAULED GEA71, PN 011-00831-00, SN 46710012. PERFORMED SOFTWARE UPDATE FOR NEW UNIT IAW GARMIN G1000 LINE MAINT MANUAL FOR SYSTEM SOFTWARE 321.22. PERFORMED OP CHECKS - CHECKS GOOD ON GROUND. FINAL INSPECTION OK.

GENERAL AVIATION MAINTENANCE RELEASE---THE AIRCRAFT/APPLIANCE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA AND IS APPROVED FOR RETURN TO SERVICE.

PERTINENT

DETAILS OF THE REPAIR ARE ON FILE AT THIS STATION UNDER WORK ORDER 34756.

C. R. Haskell

Signed 3605470 CHRIS HASKELL

August 1, 2013 S/N40.623 Diamond Star DA40 N513DS TACH: 821.2 TTAF: 821.2
ETSN: 821.2 PTSN: 821.2

Performed Annual Inspection in accordance with DA40 Inspection Guide Section 05-28-00 & 05-28-50. C/W ELT Test in accordance with FAR 91.207(d) replaced 8 D cell batteries with new batteries due 7-2013. Removed rudder to repair minor cosmetic damage to lower right side of rudder. Inspected interior of lower end of rudder while it was on the bench, no discrepancies were found. Reinstalled rudder. Installed new brake linings p/n 4 ea 066-14100 on both brakes, serviced brakes. Serviced air induction filter by cleaning and oiling filter.

Complied with the following AD's.

09-10-04 Nose gear pivot cracks: Lifted nose, removed nose fork pivot and cleaned, dye checked area as indicated by MSB D4-046/3 and found no indication of cracks, greased pivot assy. and reassembled, set pivot pressure to 9.7 lbs as per Service Manual.

11-21-10 Air Conditioner Mount: N/A by no air conditioner installed

I certify that this Airframe has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition this date.

AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744

A&P3486712IA

Brian N Cox

Brian N Cox

Kings Avionics, Inc. 1430 JET STREAM DR. SUITE # 120 HENDERSON, NV 89052 KD62661N
LOG ID# 4595 13-September-2013 WO# 36526/1
N513DS S/N 40-623 DIAMOND AIRCRAFT IND DA40 TACH 837.4

Pg 1 / 1

THIS IS A PERMANENT LOGBOOK ENTRY.

**** ITEM # 36526-1 AP HDG/CRS/ROLL OFFSET 10 DEGREES ****

ACTION: PERFORMED ROLL NULL SYSTEM ALIGNMENT IAW BENDIX/KING KAP 140 AUTOPILOT INSTRUCTIONS. SYSTEM CHECKS GOOD. FINAL INSPECTION OK.

**** ITEM # 36526-2 AP AUDIO TOO LOUD ****

ACTION: ADJUSTED UNSWITCHED AUDIO 2 ADJUSTMENT IN G1000 MAINT MODE TO LOWER SPECS. SYSTEM CHECKS GOOD. FINAL INSPECTION OK.

GENERAL AVIATION MAINTENANCE RELEASE---THE AIRCRAFT/APPLIANCE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA AND IS APPROVED FOR RETURN TO SERVICE.

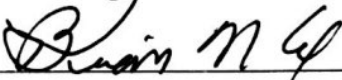
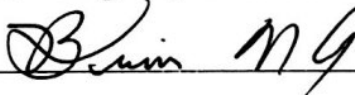
PERTINENT

DETAILS OF THE REPAIR ARE ON FILE AT THIS STATION UNDER WORK ORDER #36526.

C. R. Haskell

Signed KD62661N CHRIS HASKELL

AIR TIME AND

DATE	DAILY TOTAL	TOTAL AIR TIME SINCE MFG.	ENGINEERING RECORD		
July 9, 2014	S/N40.623	Diamond Star DA40 ETSN: 821.2	N513DS PTSN: 821.2	TACH: 925.8	TTAF: 925.8
<i>C/W AD 93-05-06 Ignition switch inspection and lubrication. Removed and replaced both left and right hand main tires. Left tire p/n 061-501-0, s/n 2132W00037. Right tire p/n 061-501-0, s/n 2132W00020. The wheel bearings were cleaned and repacked and the tires were balanced. Removed the right hand brake torque plate and installed a new torque plate p/n 075-0770. Removed both slide pins from the right hand brake caliper and installed new pins p/n 069-01900.</i>					
AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744					
A&P3486712IA		Brian N Cox			
August 13, 2014	S/N40.623	Diamond Star DA40 ETSN: 949.4	N513DS PTSN: 949.4	TACH: 949.4	TTAF: 949.4
<i>Performed Annual Inspection in accordance with DA40 Inspection Guide Section 05-28-00 & 05-28-50. C/W ELT Test in accordance with FAR 91.207(d) replaced 8 D cell batteries with new batteries due 8-2015. Removed and cleaned leaking oil quick drain.</i>					
<i>Serviced air induction filter by cleaning and oiling filter.</i>					
<i>Complied with the following AD's.</i>					
<i>09-10-04 Nose gear pivot cracks Inspected as per MSB 40-046/3 Due 8-13-14 or 1121.2 whichever occurs later</i>					
<i>14-13-08 Center wing aft spar Due on or before TTAF 2,949 hrs or 2-27 2023 whichever occurs first</i>					
<i>I certify that this Airframe has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition this date.</i>					
AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744					
A&P3486712IA		Brian N Cox			
CARRIED FORWARD					

ENGINEERING RECORD

6

INSPECTION, REPAIRS & REPLACEMENT ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
---	-----------	----------------

KINGS AVIONICS, INC. 800-939-8412

THIS IS A PERMANENT LOGBOOK ENTRY - PERFORMED TEST & INSPECTIONS IAW FAR 43, APPENDIX E TO COMPLY WITH 91.411 ✓; APPENDIX F TO COMPLY WITH FAR 91.413 ✓ JOB LOCATION: KHND

STATIC SYS #1 TEST ALT 1K' AGL STATIC SYS #2 TEST ALT _____ STATIC SYS #3 TEST ALT _____

	MANUF.	MODEL	PART#	S/N	TESTED TO ALT
ALTIMETER #1	<u>GARMIN</u>	<u>GDU1040</u>	<u>011-00972-03</u>	<u>88900490</u>	<u>20K'</u>
ADC/ENCODER #1	<u>GARMIN</u>	<u>GDC14A</u>	<u>011-00882-00</u>	<u>47605873</u>	<u>20K'</u>
ALTIMETER #2	<u>UNITED</u>	<u> }</u>	<u>5934PD-3</u>	<u>450536</u>	<u>20K'</u>
ADC/ENCODER #2	<u> }</u>	<u> }</u>	<u> }</u>	<u> }</u>	<u> }</u>
ALTIMETER #3	<u> }</u>	<u> }</u>	<u> }</u>	<u> }</u>	<u> }</u>
TRANSPONDER #1	<u>GARMIN</u>	<u>GTX 33</u>	<u>011-00779-00</u>	<u>89100451</u>	<u> }</u>
TRANSPONDER #2	<u> }</u>	<u> }</u>	<u> }</u>	<u> }</u>	<u> }</u>

PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION UNDER W/O # 38015 ACTT 950.4
 AUTH. SIGNATURE C.R. Haskell DATED 08/16/2015 RECERT DUE DATE 08/2016 513DS

Aviation maintenance release, the above identified aircraft was repaired and inspected in accordance with the current regulations of the FAA and is approved for return to service.
ADJUSTED STANDBY ALTIMETER TO WITHIN SPECS.

CRS: KD6R661N- KSLC KD6D661N- KSGU KD62661N- KHND **FORM KA-12**

Kings Avionics Inc 1430 JET STREAM DR. SUITE # 120 HENDERSON, NV 89052 KD62661N
 LOG ID# 5023 29-August-2014 WO# 38018/1
 N513DS S/N 40623 DIAMOND AIRCRAFT INC DA40 TACH 985.4

Pg 1 of 1

THIS IS A PERMANENT LOGBOOK ENTRY
 I AM THE PILOT IN COMMAND OF THIS AIRCRAFT AND I HAVE READ AND UNDERSTAND THE CONTENTS OF THIS ENTRY AND I CERTIFY THAT THE INFORMATION IS TRUE AND CORRECT.
 I HAVE PERFORMED THE TESTS AND INSPECTIONS REQUIRED BY FAR 43.151 AND FAR 43.159 AND I HAVE FOUND NO DEFECTS.
 GENERAL AVIATION MAINTENANCE RELEASE: THE AIRCRAFT/APPLIANCE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS STATION UNDER WORK ORDER #38013.
C.R. Haskell
 KD62661N CHRIS HASKELL

Job 7014
 August 31, 2015 S/N40.623 Diamond Star DA40 N513DS TACH: 985.7 TTAF: 985.7
 ETSN: 985.7 PTSN: 985.7

Performed Annual Inspection in accordance with DA40 Inspection Guide Section 05-28-00 & 05-28-50. C/W ELT Test in accordance with FAR 91.207(d) replaced 8 D cell batteries with new batteries due 8-2015. Replaced ELT remote battery with Duracell lithium battery P/N 28L, now due to be replaced in 8/2023. Removed, cleaned, and reinstalled fuel strainer bowl with new O-ring P/N GAS 375. I certify that this Airframe has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition this date.

AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744

#P529869163AI Leonard D. Helco Leonard D. Helco

AIR TIME AND

Job 7466

December 16, 2016 S/N40.623 Diamond Star DA40 N513DS TACH: 1072.9 TTAF: 1072.9
ETSN: 1072.9 PTSN: 1072.9

Performed Annual Inspection in accordance with DA40 Inspection Guide Section 05-28-00 & 05-28-50. C/W ELT Test in accordance w/ FAR 91.207(d), replaced 8 Dcell batteries w/ new, batteries due 12-1-2017, New Battery Case p/n E-01-03 Installed. Remote due 9-1-2023. Serviced air induction filter by cleaning and oiling filter. Removed, cleaned, and reinstalled fuel strainer bowl with new O-ring P/N GAS 375. Installed New D41-2560-93-00 Emergency Battery Pack. Performed Motor Mount Bolt Inspection. Installed (2) New Bushings p/n BB4526DU-B Nose Pivot and New DIN985-M12-A2 Nut and friction set to 9.7 lbs. Installed Rudder cable Kit p/n CSKIT-07 non Stainless Cables due for replacement again 3,000. Hrs. Alternator Prestolite ALU8521LS s/n G051004 500 Hr Inspection Performed Installed new Bearings p/n X4130 & X4612 New Brushes p/n ALE1013AS. Reinstalled and Operational tested. Repaired wiring at the Aux Post on the back of alternator. Removed voltage regulator P/N VR 2000-28-1 s/n F101349 and Installed New P/N VR 2000-28-1 s/n 80N68610. Packed Wheel Bearings & Serviced Brakes.

The following special inspections were Performed IAW Service Manual

Essential bus. due every 1000 hr,

Bonding system and static discharging system, due every 1000 hr.,

Emergency Battery (G1000 system), due 2 yrs. or date marked on package

Fire extinguisher, every 10 years.

Replaced With New.

Rudder cables, due every 3000 hrs.

Replaced

Universal joints in fuel selector shaft, due every 1000 hrs.

Front cockpit structure, due every 1000 hrs.

Center fuselage structure due every 2000 hrs.

Baggage compartment frame due every 1000 hrs.

Inner skin of vertical stabilizer, due @ major structural inspection,

Interior structure of vertical stabilizer, due @ major structural inspection.

Main Landing Gear Alignment Camber / Toe In Inspection.

Horizontal stabilizer interior due every 2000 hrs.

Interior structure horizontal stabilizer, due @ major structural inspection.

Structure of Vertical stabilizer, due every 2000 hrs.

G1000 low fuel switches due every 1000 hrs.

Function test, aileron control system, due every 2000 hrs.

Function test, rudder control system, due every 2000 hrs.

Function test, elevator control system, due every 2000 hrs.

Alternator Brushes & bearings, due ea. 500 hrs.

Magnetos 500 hr. inspection, due ea. 500 hrs.

09-10-04 **Nose gear pivot cracks:** Lifted nose, removed nose fork pivot and cleaned, dye checked area as indicated by MSB D4-046/3 and found no indication of cracks, greased pivot assembly and reassembled, set pivot pressure to 9.7 lbs as per Service Manual

I certify that this Airframe has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition this date.

AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744

A&P529869163AI

Leonard D. Helms



ENGINEERING RECORD

KINGS AVIONICS, INC. 801-539 800-939-8412

LICENCE
NUMBER

THIS IS A PERMANENT LOGBOOK ENTRY - PERFORMED TEST & INSPECTIONS IAW FAR 43, APPENDIX E TO COMPLY WITH 91.411 **X**; APPENDIX F TO COMPLY WITH FAR 91.413 **X** JOB LOCATION: KIGM/KBLD

STATIC SYS #1 TEST ALT 5K STATIC SYS #2 TEST ALT --- STATIC SYS #3 TEST ALT ---

	MANUE	MODEL	PART#	S/N	TESTED TO ALT
ALTIMETER #1	<u>Garmin</u>	<u>GDU1040</u>	<u>011-00972-03</u>	<u>88900490</u>	<u>20,000'</u>
ADC/ENCODER #1	<u>Garmin</u>	<u>GDC-74A</u>	<u>011-00882-00</u>	<u>47805873</u>	<u>20,000'</u>
ALTIMETER #2	<u>UNITED</u>	<u>---</u>	<u>5934PD-3</u>	<u>450536</u>	<u>20,000'</u>
ADC/ENCODER #2	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
ALTIMETER #3	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
TRANSPONDER #1	<u>Garmin</u>	<u>GTX-33</u>	<u>011-00779-00</u>	<u>8910045</u>	
TRANSPONDER #2	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	

PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION UNDER W/O # 40460 ACTT ---
AUTH. SIGNATURE [Signature] DATED 12/17/2016 RECERT DUE DATE 11/2018 N S13DS

Aviation maintenance release, the above identified aircraft was repaired and inspected in accordance with the current regulations of the FAA and is approved for return to service.

CRS: KD6R661N-[Redacted]

KSGU

FORM KA-12

JOB 7640

January 31, 2017 S/N 40.623 Diamond Star DA40 N513DS TACH: 1083.0

Removed Concorde Battery P/N RG24-15M; S/N 4044034 and installed new owner supplied Concorde Battery P/N RG24-15M' S/N 40818528, serviced in accordance w/ instructions provided and installed. Aircraft returned to service.

AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744

A&P529869163AI

Leonard D. Helco [Signature]

JOB 7884

August 17, 2017 S/N 40.623 Diamond Star DA40 N513DS TACH: 1132.5

Adjusted nose fork swivel friction. Aircraft returned to service.

AirZona Aircraft Services, Inc. 7100 Flightline Dr. Kingman, AZ. 86401 928-757-7744

A&P1856322

Steven Hurlburt [Signature]