

N771ED



The Standard

AIRCRAFT LOG

ASA-SA-2

Aircraft Record General Information

Manufacturer Cirrus Design Model SR-20
Serial 1080 Registration Number N171CD

Date of Manufacture _____

Engine(s) currently installed:

Manufacturer _____ Model _____ Serial _____

Manufacturer _____ Model _____ Serial _____

Propeller(s) currently installed:

Manufacturer _____ Model _____

HUB Model _____ Serial _____ Serial _____

Blade Model _____ Serial _____ Serial _____ Serial _____

Blade Model _____ Serial _____ Serial _____ Serial _____

YEAR 20
DATE

N 171CD Date: 9-15-17 AFTT: 1155.2

Performed altimeter, encoder, transponder correlation test to 20000ft.
Performed A/C transponder and pitot/static test I/A/W and found to
comply with FAR 91.411, FAR 91.413 FAR 43 Appendix E&F.
Next Biannual Certification is DUE BY 9-2019
WO # 17-0380

Signature [Signature]

Air Repair, Inc. 410-822-2999

CRS#XR5R175Y

AR028

ALTIMETER SCALE ERROR

P/N 5934A.3 S/N 414291

ALTIMETER PRESSURES

TEST PT (FT)	Indicator Read-ings at 25c	TEST PT (FT)	Indicator Read-ings at +25c
-1000	<u>-1000</u>	14,000	<u>13960</u>
0	<u>10</u>	16,000	<u>17980</u>
500	<u>500</u>	18,000	<u>19970</u>
1,000	<u>1000</u>	20,000	
1,500	<u>1500</u>	22,000	
2,000	<u>1990</u>	25,000	
3,000	<u>3000</u>	30,000	
4,000	<u>4000</u>	35,000	
6,000	<u>5990</u>	40,000	
8,000	<u>7980</u>	45,000	
10,000	<u>9970</u>	50,000	
12,000	<u>11980</u>	55,000	

Air Repair, Inc. 410-822-2999 CRS# XR5R175Y

AR3C

ions, Tests, Repairs and Alterations
ith Name, Rating and Certificate Number of
(See back pages for other specific entries)

YEAR 20
DATE

RECORDING
TACH
TIME

TODAY'S
FLIGHT

TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations
Entries must be endorsed with Name, Rating and Certificate Number of
Technician or Repair Facility. (See back pages for other specific entries.)

AIR REPAIR
AIR REPAIR, INC. 29137 NEWNAM UNIT 8 • EASTON, MD 21601

Date: 3/22/2019; Aircraft: N171CD; Type: C1R1RUS SR20; S/N: 1080; Hobbs: 1178.00; Engine - Type: IO-360-ES6, S/N: 357212
Shop Order #: 19-0117, Closed: 3/26/2019

REMOVED SPARK PLUGS, OILED CYLINDER WALLS BEFORE REINSTALLING. TORQUED SPARK PLUGS AND LEADS. RAN AIRCRAFT, NO PROBLEMS NOTED.


The aircraft, aircraft engine, or appliance identified above was repaired and/or inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service for the work performed. ~~Part~~ Details of the repair are on file at this repair station at Air Repair Inc.

Signed  (Signature of authorized representative) CRS#XR5R175Y

AIR REPAIR
AIR REPAIR, INC. 29137 NEWNAM UNIT 8 • EASTON, MD 21601

Date: 4/04/2019; Aircraft: N171CD; Type: C1R1RUS SR20; S/N: 1080; Hobbs: 1178.00; Engine - Type: IO-360-ES6, S/N: 357212, Time:; Work Done At - Airframe Time: 1178.00,

This aircraft has been inspected and is in a safe condition to fly/ferry from ESN to FDK per conditions of ferry permit issued by Baltimore FSDO dated 4/8/2019 and all applicable AD's have been complied with.

Signed  (Signature of authorized representative) CRS#XR5R175Y

YEAR TO DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries)
		NOT	14	ORDER

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
 LOGID# 5192 13-February-2018 WO# 22799
 N171CD S/N 1080 CIRRUS DESIGN CORP. SR20
 Pg 1 / 1

Removed garmin G1102 indicator and installed Garmin G1106a indicator for #2 GNS420W. Relocated GA35 GNS antenna and installed using methods found in Cirrus WAAS Antenna service Bulletin. Validated that the previous installation of a Garmin GNS420 installed IAW with Garmin instructions and was approved for GPS IFR Enroute, Terminal, & Non-precision Approach operations. Verified this aircraft and all interfaced equipment are covered under the AML for STC# SA01933LA and Garmin 400W/500W Series Upgrade Manual p/n 190-00357-06 Rev B (or later) per TSO-C146a. The existing wiring and shielding was inspected and determined to be IAW the STC data. Verified all existing interfaces to be in compliance the 400W/500W Series Upgrade Manual and operating as intended and operating as intended. Inserted new GNS420W Flight Manual supplement FAA Approved date into Aircraft Flight Manual. Updated the aircraft Equipment List. Inserted Garmin supplied Instructions for Continued Airworthiness p/n 190-00356-65 in the aircraft records. Removed Garmin GTX327 transponder. Installed Garmin GTX335 Transponder and Comant C1105-9 antenna IAW STC# SA01714WI. Inserted GTX335/ADS-B flight Manual Supplement in POH. All work was accomplished IAW AC43.13-1B/-2B chapters 2 & 3, and appropriate manufacturer's installation manuals. GTX335 system was functionally tested and was found to perform its intended function with no adverse effects on other aircraft systems. TESTED GARMIN GTX335 TRANSPONDER FOR ADS-B COMPLIANCE. SYSTEM WAS FOUND TO COMPLY WITH AC20-165 and 14 CFR 91.225 & 91.227. Installed used STC ST901 GPS Roll Steering Adapter IAW AC43.13-1B/-2B chapter 2 and appropriate mfg's installation manuals. All wiring/cabling used for installation purposes meets or exceeds the following specifications: (M17/29, and/or M17/60) - coax; (M22759, M27500, and/or M2244) - wire. All circuit breakers used for installation purposes were of the Klixon, Peter/Bruetfield, and/or Mechanical Products variety. All of the above installed equipment was functionally tested and was found to perform its intended function with no adverse effects on other aircraft systems. Weight and Balance change recalculated. Equipment list revised.



Todd Adams

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YEAR 20	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				



TECHNICAIR
Aircraft Maintenance
A BBA Aviation company

SIGNATURE
330 Aviation Way
Frederick, MD 21701
301-662-8156
CRS LC1R291K

Date: 4/10/2019; Aircraft: N171CD; Hobbs: 1180.30
Shop Order #: S05-19-63430
Installed new line cutters p/n 26707-001 s/n's 14283 and 1476 both with a manufacture date of 8/2018. Line cutters will be due change by 8/2024.

Handwritten signature

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
LOG ID# 5854 08-May-2019 WO# 24134/1 AC TT 1184.0 HOBBS 1184.0
N171CD S/N 1080 CIRRUS DESIGN CORP. SR20

**** ITEM # 24134-1 REPAIR S-TEC 30 AUTOPILOT ****
DISCREPANCY: TOP RIGHT KNOB/SHAFT PULLS OUT.
ACTION: VERIFIED SQUAWK; REPAIRED STEC-30 COMPUTER, 01260-4-8-28, S/N 1629B BY REPLACING KNOB/SHAFT KNUCKLE-JOINT P/N 61227. OPS CHECKS OK. REFERENCED COBHAM/STEC SB 08-007, FRM 8.3-02-01, REV.E, DATED 08/06/08.

**** ITEM # 24134-2 REPAIR GNS430 ****
DISCREPANCY: POOR GPS SIGNALS.
Model: GNS430
ACTION: VERIFIED SQUAWK; REPAIRED #1 GPS POOR SATELLITE RECEPTION BY RE-AFFIXING ANTENNA TO VELCRO UNDERNEATH GLARESHIELD. INSTALLED 90 DEGREE BNC ADAPTER TO RELIEVE STRAIN ON ANTENNA BY RG-400 COAX. ALL OPS CHECKS OK.

**** ITEM # 24134-3 UPDATE GTX335 SOFTWARE ****
DISCREPANCY: UPDATE GTX335 SOFTWARE
ACTION: C/W GARMIN SB1903A BY UPDATING GTX335, S/N 3EE002066 SOFTWARE FROM 2.12 TO 2.52. VERIFIED ADS-B COMPLIANCE. ALL OPS CHECKS OK.

Handwritten signature

ANDREW W. KNOWLTON

SCOTT J. KUHN

YEAR 20
DATE
RECORDING TACH TIME

N 171CD Date: 10-17-19 AFTT: 1199.8

Performed altimeter, encoder, transponder correlation test to 20000 ft.
Performed ATC transponder and pitot/static test I/A/W and found to
comply with FAR 91.411, FAR 91.413 FAR 43 Appendix E&F.

Next Biannual Certification is DUE BY 10-2021
WO # 19-0400

Signature [Signature] CRS#XR5R175Y

Air Repair, Inc. 410-822-2999 AR028

ALTIMETER SCALE ERROR
P/N 57341D-3 S/N 414291
ALTIMETER PRESSURES

TEST PT (FT)	Indicator Read-ings at 25c	TEST PT (FT)	Indicator Read-ings at +25c
-1000	-990	14,000	13970
0	0	16,000	15970
500	500	18,000	17990
1,000	1000	20,000	19980
1,500	1500	22,000	
2,000	2000	25,000	
3,000	3000	30,000	
4,000	3990	35,000	
6,000	5980	40,000	
8,000	7990	45,000	
10,000	9990	50,000	
12,000	11980	55,000	

Air Repair, Inc. 410-822-2999 CRS# XR5R175Y AR30

Repairs and Alterations
and Certificate Number of
3 for other specific entries.)

YEAR
20
DATE

AIR REPAIR

AIR REPAIR, INC. 29137 NEWNAM UNIT 8 • EASTON, MD 21601

Date 11/05/2019, Aircraft N171CD, Type: CIRRUS SR20; S/N: 1080; Hobbs: 1202.70; Engine - Type: IO-360-ES6, S/N 357212, Time: 1202.70; Work Done At - Airframe Time: 1202.70, Shop Order # 19-0433, Closed: 11/05/2019

REMOVED UPPER COWLING, R/R OIL FILLER ACCESS PANEL LATCHES AS REQUIRED (RIVETING).
REINSTALLED UPPER COWLING.

The aircraft, aircraft engine, or appliance identified above was repaired and/or inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service for the work performed. Pertinent details of the repair are on file at this repair station at Air Repair, Inc.

Signed

(Signature of authorized representative)

CRS#XR5R175Y



TECHNICAR

Aircraft Maintenance
A BBA Aviation company

SIGNATURE
330 Aviation Way
Frederick, MD 21701
301-662-8156
CRS LC1R291K

Date: 9/25/2020; Aircraft: N171CD; Hobbs: 1213.90
Shop Order #: S05-20-63441
CW SB2X-95-20 rev 1 CAPS parachute and rocket motor replacement. Rocket motor assembly p/n 29554-003 s/n 3991, Alt grain lot/DOM 190612-TRM-275-006-001, bulkhead grain lot/DOM 190612-TRM-275-006-002. Parachute p/n 25574-002 s/n 0091R1 inspected and re-packed by Cirrus Design Factory Service Center CRS YD5R855Y on their work order number CSO 1079969, dated 7 April 2020. Reused existing line cutters s/n's 14283 and 14176 with a manufacture date of 8/18. Installed CAPS cover and blended/prepared for paint CW Cirrus S32X-95-24 Rev 2, rocket shelf ground IAW Instructions.

C. John Colalucci for Signature Technicar CRS LC1R291K

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YEAR 20
DATE

RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE
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Description of Inspections, Tests, Repairs and Alterations
 Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

AIR REPAIR

AIR REPAIR, INC. 29137 NEWNAM UNIT 8 • EASTON, MD 21601

Date: 11/09/2020; Aircraft: N171CD; Type: CIRRUS SR20; S/N: 1080; Hobbs: 1217.90; Engine - Type: IO-360-ES6, S/N: 357212, Time: 1217.90; Work Done At - Airframe Time: 1217.90, Shop Order #: 20-0361, Closed: 11/10/2020

- *CW ANNUAL INSP PER AIR REPAIR AR001SE INSP CHECKLIST.
- *REPL RUDDER AILERON INTERCONNECT BUNGEE CORD. NEW BUNGEE CORD MFG DATE 4TH QUARTER 2019. NEXT DUE REPL IN FIVE YEARS FROM MANUFACTURE.
- *REPL BATTERIES FOR EMERGENCY POWER SUPPLY OF TURN COORDINATOR. BATTERIES DUE REPL AFTER EMERGENCY USE OR AT ANNUAL INSP.
- *REPL BATTERY IN ELT REMOTE CONTROL PANEL/INDICATOR. BATTERY DUE REPL EVERY 4 YRS PER M.M. CHAP 5-10 PAGE 2 (10/24).
- *TROUBLESHOT INOP TURN COORDINATOR EMERGENCY POWER, FOUND AND REMOVED CORROSION AT BATTERY TERMINAL CONNECTIONS. FOUND AND REPAIRED 3 BAD WIRE CONNECTIONS AT BATTERY TERMINAL CONNECTIONS AFFECTED BY CORROSION.
- *REMOVED ENGINE DRIVEN VACUUM PUMP P/N 215CC, S/N 6AT3202 AND INSTALLED O/H PUMP P/N AA3215CC, S/N OFPN17.
- *ACCESSED AND CONNECTED CABIN AIR HOSE ON PILOT'S SIDE FWD OF INSTRUMENT PANEL ABOVE RUDDER PEDALS. INSTALLED ITEMS REMOVED FOR ACCESS.
- *TIGHTENED SET SCREW AND INSTALLED SET SCREW WHERE MISSING ON CABIN AIR TEMP CONTROL KNOB (LEVER).
- *TROUBLESHOT INOP LEFT AND RIGHT AFT CABIN READING LIGHTS. FOUND AND REPL BULBS IN LEFT AND RIGHT AFT CABIN READING LIGHTS.
- *REMOVED COCKPIT PORTABLE FIRE EXTINGUISHER P/N RT-A600, S/N P-008431 AND BRACKET. INSTALLED NEW HALOTRON EXTINGUISHER P/N A384T, S/N G-01790218 (1.40 LBS, MFG 2020) AND

YEAR 20
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AIR REPAIR
AIR REPAIR, INC. 29137 NEWNAM UNIT 8 • EASTON, MD 21601

- BRACKET.
- *REPL WELLNUTS AS REQ FOR LEFT AND RIGHT L/G UPPER FAIRING ATTACHMENT.
- *PERFORMED FIBERGLASS REPAIR TO NOSE WHEEL FAIRING. PREPPED AND PAINTED FAIRING AND NOSE STRUT COVER.
- *PERFORMED TOUCH UP PAINT ON AIRCRAFT AFTER ROCKET REPL.

The aircraft, aircraft engine, or appliance identified above was repaired and/or inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return for service for the work performed. ELT has been inspected IAW FAR 91.207 Par (d) and meets the requirements of this inspection. Pertinent details of the repair are on file at this repair station under WORK ORDER NO.20-0361 I certify that this Aircraft has had an ANNUAL INSPECTION and is airworthy at this time.

Signed *Michael D. ...*
(Signature of authorized representative) CRS#XR5R175Y

