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## **MATERIAL REQUISITION**

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## **MATERIAL REQUISITION**

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INSPECTION SUPPLEMENT AND WORK ORDER

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John D. Odegard School of Aerospace Sciences

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# MATIND SN 1258

## Airworthiness Directive 2002-24-08 Summary

Subject:

Prevent failure of the CAPS activation system in an emergency situation

Manufacturer:

Cirrus

Category:

Airframe

Effective Date:

01/24/2003

Recurring:

No

Supersedes:

2002-05-05

Superseded By:

N/A

For complete information on this AD, please see:

AD 2002-24-08 (FAA Copy)

AD 2002-24-08 (From CFR)

AD 2002-24-08 Preamble

Model Applicability:

This AD affects the following airplane models and serial numbers that are certificated in any category:

Model	Serial numbers	-		
SR20	1005 through 1195.	N/A	64	5/N
SR22	0002 through 0209.		31.70	

Applicable Manufacturers Service Information:

Cirrus Service Bulletin SB 20-95-03, Issued: June 10, 2002

Cirrus Service Bulletin SB 20-95-04, Issued: July 10, 2002

Cirrus Service Bulletin SB 20-95-05, Issued: July 10, 2002

Cirrus Service Bulletin SB 20-95-05, Rev 1: dated August 14, 2002

Cirrus Service Bulletin SB 22-95-03, Issued: June 10, 2002

Cirrus Service Bulletin SB 22-95-04, Issued: July 10, 2002

Cirrus Service Bulletin SB 22-95-05, Issued: July 10, 2002

Cirrus Service Bulletin SB 22-95-05, Rev 1: dated August 14, 2002

Summary:

This amendment supersedes Airworthiness Directive (AD) 2002-05-05, which currently applies to certain Cirrus Design Corporation (Cirrus) Models SR20 and SR22 airplanes. AD 2002-05-05 currently requires you to incorporate temporary operating limitations into the Limitation Section of the airplane flight manual (AFM) for certain affected airplanes and install a cable clamp external to the cone adapter on the Cirrus Airplane Parachute System (CAPS) activation cable for all affected airplanes. AD 2002-05-05 resulted from a report from the manufacturer that certain CAPS may not activate in an emergency situation. This AD is the result of the manufacturer redesigning the CAPS activation system. This AD requires you to modify the CAPS activation system. The actions specified by this AD are intended to prevent failure of the CAPS activation system in an emergency situation. Failure of this system could result in occupant injury and/or loss of life and loss of aircraft.

## es and Regulations

### **Federal Register**

Vol. 67, No. 237

Tuesday, December 10, 2002

### DEPARTMENT OF TRANSPORTATION

### **Federal Aviation Administration**

#### 14 CFR Part 39

[Docket No. 2002-CE-31-AD; Amendment 39-12973; AD 2002-24-08]

#### RIN 2120-AA64

### Airworthiness Directives; Cirrus Design Corporation Models SR20 and SR22 Airplanes

AGENCY: Federal Aviation Administration, DOT ACTION: Final rule.

SUMMARY: This amendment supersedes Airworthiness Directive (AD) 2002-05-05, which currently applies to certain Cirrus Design Corporation (Cirrus) Models SR20 and SR22 airplanes. AD 2002-05-05 currently requires you to incorporate temporary operating limitations into the Limitation Section of the airplane flight manual (AFM) for certain affected airplanes and install a cable clamp external to the cone adapter on the Cirrus Airplane Parachute System (CAPS) activation cable for all affected airplanes. AD 2002-05-05 resulted from a report from the manufacturer that certain CAPS may not activate in an emergency situation. This AD is the result of the manufacturer redesigning the CAPS activation system. This AD requires you to modify the CAPS activation system. The actions specified by this AD are intended to prevent failure of the CAPS activation system in an emergency situation. Failure of this system could result in occupant injury and/or loss of life and loss of aircraft.

DATES: This AD becomes effective on January 24, 2003.

The Director of the Federal Register approved the incorporation by reference of certain publications listed in the regulations as of January 24, 2003.

ADDRESSES: You may get the service information referenced in this AD from Cirrus Design Corporation, 4515 Taylor Circle, Duluth, MN 55811; telephone: (218) 727-2737. You may view this information at the Federal Aviation Administration (FAA), Central Region, Office of the Regional Counsel Attention: Rules Docket No. 2002-CE-31-AD, 901 Locust, Room 506, Kansas City, Missouri 64106; or at the Office of the Federal Register, 800 North Capitol Street, NW., Suite 700, Washington, DC. FOR FURTHER INFORMATION CONTACT: Gregory J. Michalik, Aerospace Engineer, FAA, Chicago ACO, 2300 East Devon Avenue, Des Plaines, IL 60018; telephone: (847) 294-7135; facsimile: (847) 294-7834.

### SUPPLEMENTARY INFORMATION:

#### Discussion

Has FAA taken any action to this point? The FAA received a report from the type certificate holder that a condition exists that could cause the Cirrus Airplane Parachute System (CAPS) installed on certain Cirrus Design Corporation (Cirrus) Model SR20 and SR22 airplanes not to activate in the event of an emergency. Ballistic Recovery Systems (BRS), the supplier of the CAPS, discovered the condition during a supplemental type certificate (STC) certification test of the same unit on another airplane.

Investigation revealed that the rocket cone could allow for variance in the internal diameter at the threaded end of the rocket cone. This variance could result in the retaining nut internal to the cone adapter not being fully secured on the affected parachutes. When the igniter end of the cable housing is unsecured, the cable will not pull the igniter pin free to release the parachute.

Section 23.221 of the Federal Aviation Regulations (14 CFR 23.221) requires that single-engine, normal category airplanes demonstrate compliance with either the one-turn spin recovery or the spin-resistant requirements. The airplane, for spin recovery compliance, must recover from a one-turn spin or a three-second spin, whichever takes longer, in not more than one additional turn after the controls have been applied for recovery. The Cirrus SR20/SR22 are not certificated to meet the spin recovery requirements or spin resistant requirements of 14 CFR 23.221. Instead, Cirrus installed Cirrus Airplane

## Federal Register/Vol. 67, No. 237/Tuesday, December 10, 2002/Rules and Regulations

hute System (CAPS) that was FAAroved as part of the SR20/SR22 type

sign Possible failure of the CAPS activation system in an emergency situation caused us to issue AD 2002-05-05, Amendment 39-12673 (67 FR 11220, March 13, 2002). AD 2002-05-05 requires the following:

Incorporating temporary operating limitations into the Limitation Section of the airplane flight manual (AFM) for the airplanes with a CAPS that incorporates the process change; and Installing a cable clamp external to the cone adapter on the CAPS activation cable (as terminating action

What has happened since AD 2002-05-05 to initiate this action? After further testing, Cirrus has made design changes to the whole CAPS activation system that now eliminate possible failure of the CAP activation system. Incorporation of the design changes

for the AFM requirements).

Has FAA taken any action to this point? We issued a proposal to amend part 39 of the Federal Aviation Regulations (14 CFR part 39) to include an AD that would apply to certain Cirrus Models SR20 and SR22 airplanes. This proposal was published in the Federal Register as a notice of proposed rulemaking (NPRM) on August 29, 2002 (67 FR 55357). The NPRM proposed to supersede AD 2002–05–05 with a new AD that would require you to replace the CAPS handle access cover, replace the CAPS activation handle bracket, and replace the CAPS activation cable.

Was the public invited to comment? The FAA encouraged interested persons to participate in the making of this amendment. We did not receive any comments on the proposed rule or on our determination of the cost to the public.

#### FAA's Determination

What is FAA's final determination on

subject presented above, we have determined that air safety and the public interest require the adoption of the rule as proposed except for minor editorial corrections. We have determined that these minor corrections:

- Provide the intent that was proposed in the NPRM for correcting the unsafe condition; and
- -Do not add any additional burden upon the public than was already proposed in the NPRM.

### **Cost Impact**

How many airplanes does this AD impact? We estimate that this AD affects 391 airplanes in the U.S. registry.

What is the cost impact of this AD on owners/operators of the affected airplanes? We estimate the following costs to accomplish the replacement of the CAPS handle access cover:

liminates the need for the actions of AD 2002–05–05. this issue? After careful review of all available information related to the	1		
Labor cost	Parts cost	Total cost per airplane	Total cost on U.S. oper- ators
workhour × \$60 per hour = \$60	\$19	\$79	\$79 × 391 = \$30,889.
We estimate the following costs to accomplish the replacement of the CAPS	activation h	andle bracket	:
Labor cost	Parts cost	Total cost per airplane	Total cost on U.S. oper- ators
2 workhours × \$60 per hour = \$120	\$7	\$127	\$127 × 391 = \$49,657.
We estimate the following costs to accomplish the replacement of the CAPS	activation ca	able:	
Labor cost	Parts cost	Total cost per airplane	Total cost on U.S. oper- ators
3 workhours × \$60 per hour = \$180	\$320	\$500	\$500 × 391 = \$195,500.
We summarize the following estimated costs to accomplish the modification	to the CAP	S activation s	ystem:
Total labor cost	Total parts cost	Total cost per airplane	Total cost on U.S. oper- ators
6 workhours × \$60 per hour = \$360	\$346	\$706	\$706 × 391 = \$276,046.

The manufacturer will provide warranty credit for labor and parts to the extent noted under WARRANTY INFORMATION in each previouslyreferenced service bulletin.

## Compliance Time of This AD

What is the compliance time of this AD? The compliance time of this AD is "within 90 days after the effective date of this AD, unless already accomplished."

Why is the compliance time presented in calendar time instead of hours timein-service (TIS)? Failure of the CAPS is

only unsafe during airplane operation; this unsafe condition is not a result of the number of times the airplane is operated. The chance of this situation occurring is the same for an airplane with 10 hours time-in-service (TIS) as it is for an airplane with 500 hours TIS. For this reason, the FAA has determined that a compliance based on calendar time will be utilized in this AD in order to assure that the unsafe condition is addressed on all airplanes in a reasonable time period.

### **Regulatory Impact**

Does this AD impact various entities? The regulations adopted herein will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government. Therefore, it is determined that this final rule does not have federalism implications under Executive Order 13132.

Does this AD involve a significant rule or regulatory action? For the reasons discussed above, I certify that this

n (1) is not a "significant regulatory on" under Executive Order 12866; on" under Executive Order 12866; is not a "significant rule" under DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and (3) will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act. A copy of the final evaluation prepared for this action is contained in the Rules Docket. A copy of it may be obtained by contacting the Rules Docket at the location provided under the caption ADDRESSES.

## List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

## Adoption of the Amendment

Accordingly, under the authority delegated to me by the Administrator, the Federal Aviation Administration amends part 39 of the Federal Aviation Regulations (14 CFR part 39) as follows:

## PART 39—AIRWORTHINESS DIRECTIVES

The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

### § 39.13 [Amended]

2. FAA amends § 39.13 by removing Airworthiness Directive (AD) 2002–05– 05, Amendment 39–12673 (67 FR March 13, 2002), and by adding a new AD to read as follows:

2002–24–08 Cirrus Design Corporation: Amendment 39–12973; Docket No. 2002–CE–31–AD. (a) What airplanes are affected by this AD? This AD affects the following airplane models and serial numbers that are certificated in any category:

Model	Serial numbers
SR20	1005 through 1195.
SR22	0002 through 0209.

(b) Who must comply with this AD? Anyone who wishes to operate any of the airplanes identified in paragraph (a) of this AD must comply with this AD.

(c) What problem does this AD address? The actions specified by this AD are intended to prevent failure of the Cirrus Airplane Parachute System (CAPS) activation system in an emergency situation. Failure of this system could result in occupant injury and/or loss of life and loss of aircraft.

(d) What actions must I accomplish to address this problem? To address this problem, you must accomplish the following:

Actions	Compliance	Procedures
Modify the Cirrus Airplane Parachute System (CAPS) by replacing the CAPS handle access cover, the CAPS activation handle bracket, and the CAPS activation cable with parts of improved design.	2003 (the effective date of this AD), unless already accomplished.	In accordance with the service information specified in paragraph (e) of this AD.

- (e) What service information should I use to accomplish the actions required in paragraph (d) of this AD: Use the service bulletins specified below, as applicable:
- (1) Cirrus Service Bulletin SB 20–95–03, Issued: June 10, 2002;
- (2) Cirrus Service Bulletin SB 20–95–04, Issued: July 10, 2002;
- (3) Cirrus Service Bulletin SB 20-95-05, Issued: July 10, 2002; or Cirrus Service Bulletin SB 20-95-05, Rev 1: dated August 14, 2002;
- (4) Cirrus Service Bulletin SB 22–95–03, Issued: June 10, 2002;
- (5) Cirrus Service Bulletin SB 22–95–04, Issued: July 10, 2002; and
- (6) Cirrus Service Bulletin SB 22–95–05, Issued: July 10, 2002; or Cirrus Service Bulletin SB 22–95–05, Rev 1: dated August 14, 2002.

Note 1: Cirrus Service Bulletin SB 20–95–03, Issued: June 10, 2002, on page 2 of 2, includes an incorrect reference to SB 22–95–03 in step 4. The correct reference should be to SB 20–95–03.

Note 2: Cirrus Service Bulletin SB 20-95-05, Issued: July 10, 2002, on page 9 of 16, includes an incorrect reference to SB 22-95-05 in step 15. The correct reference should be to SB 20-95-05.

(f) Can I comply with this AD in any other way? (1) You may use an alternative method of compliance or adjust the compliance time if:

 (i) Your alternative method of compliance provides an equivalent level of safety; and
 (ii) The Manager, Chicago Aircraft

(ii) The Manager, Chicago Aircraft Certification Office (ACO), approves your alternative. Submit your request through an FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, Chicago ACO.

(2) Alternative methods of compliance approved in accordance with AD 2002-05-05, which is superseded by this AD, are not approved as alternative methods of compliance with this AD.

Note 3: This AD applies to each airplane identified in paragraph (a) of this AD, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For airplanes that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (f) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if you have not eliminated the unsafe condition, specific actions you propose to address it.

(g) Where can I get information about any already-approved alternative methods of

compliance? Contact Gregory J. Michalik, Aerospace Engineer, FAA, Chicago ACO, 2300 East Devon Avenue, Des Plaines, IL 60018; telephone: (847) 294–7135; facsimile: (847) 294–7834.

(h) What if I need to fly the airplane to another location to comply with this AD? The FAA can issue a special flight permit under sections 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate your airplane to a location where you can accomplish the requirements of this AD.

(i) Are any service bulletins incorporated into this AD by reference? Actions required by this AD must be done in accordance with Cirrus Service Bulletin SB 20–95–03, Issued: June 10, 2002; Cirrus Service Bulletin SB 20-95–04, Issued: July 10, 2002; Cirrus Service Bulletin SB 20–95–05, Issued: July 10, 2002; Cirrus Service Bulletin SB 20-95-05, Rev 1: dated August 14, 2002; Cirrus Service Bulletin SB 22-95-03, Issued: June 10, 2002; Cirrus Service Bulletin SB 22-95-04, Issued: July 10, 2002; Cirrus Service Bulletin SB 22-95–05, Issued: July 10, 2002; and Cirrus Service Bulletin SB 22–95–05, Rev 1: dated August 14, 2002. The Director of the Federal Register approved this incorporation by reference under 5 U.S.C. 552(a) and 1 CFR art 51. You may get copies from Cirrus Design

Federal Register/Vol. 67, No. 237/Tuesday, December 10, 2002/Rules and Regulations

fration, 4515 Taylor Circle, Duluth, MN 11: telephone: (218) 727–2737. You may 12: telephone: (218) 727–2737. You may 13: telephone: (218) 727–2737. You may 14: telephone: (218) 727–737. You may 15: telephone: (218) 727–737. You may office of the Regional Counsel, 901 Locust, Room 506, Kansas City, Missouri, or at the Room 500, Kansas City, Missouri, or at the Office of the Federal Register, 800 North Capitol Street, NW., Suite 700, Washington, DC.

(j) Does this AD action affect any existing AD actions? This amendment supersedes AD 2002–05–05, Amendment 39–12673.

(k) When does this amendment become effective? This amendment becomes effective on January 24, 2003.

Issued in Kansas City, Missouri, on November 26, 2002.

Michael Gallagher,

Manager, Small Airplane Directorate, Aircraft Certification Service.

[FR Doc. 02-30685 Filed 12-9-02; 8:45 am]

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2 UPGRADE #2 605 3450   VPGRADE #2605 FIRMUMES  FIRMUMARE TO 605   TO 605 VER 3-0 TO ELIMINATE  VER 3.0 & MAIN TO   ERRONEOUS RAIM S REDR    VER 4.0   MESSAGES    P/N 011-00780-10   3450   UPGRADED #2 605 FIRMUMARE   N 4/244   100    S/N 97/10592   To MAIN VER 4.0    I certify the aircraft airframe, eircraft engine, propeller, or appliance identified above was repaired and inspected in appliance identified above was repaired and inspected in Airministration with respect to the work performed, and found to be airworthy and is approved for return to pervice.  Cartified Repair Station OGBROGEN.		SN 97110738		1.	TO MAIN VER 4.	.0.		-				-
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S/N 97/10592  I certify the aircraft airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration with respect to the work performed and found to be airworthy and is approved for return to service.  Certified Repair Station OG5R092N.		VER 4.0					24	_	-	0-1	++-	1110
S/N 97/10592  I certify the aircraft airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration with respect to the work performed and found to be airworthy and is approved for return to pervice.  Certified Repair Station OG5R093N.		P/N 011-00780-10	34/50	Z	UPGRADED #2	6PS FIRM	PARE	1 6	J 4/21	4 12	4	r Karl
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Administration with respect to the work performed and found to be already and is approved for return to service.  Certified Repair Station OG5R093N.				appli	ance identified above was repair	outher Federal	AVISSION	+	-			
0 0 0 0 0			-	Admi	nistration with respect to the wo	ork perronneo/s	MICI.	- 1		-		
Authorized Signature	_					100	1	-				1
				Auth	orized Signature	- /*~		-		-	++-	

#### INSPECTION SUPPLEMENT AND WORK ORDER Page 1 of \_2 John D. Odegard School WKO#: 1027454 OBTAIN ALL of Aerospace Sciences INITIALS BEFORE FILING Mech: University of North Dakota Shop Code: A Box 9007 University Station Equip Code: A Date closed: 5/0 6/03 Grand Forks, ND 58202-9007 4/24/2003 6:34 Opened: Customer: UNDAF Acct#: 9503-9903-471 Preliminary Insp N# N777ND AcftType: SR20 Init BSS Bill Meter: 46.6 Model: SR20 A/F Tach: 46.6 Parl# Description Serial# TSO Total Time SR20 46.6 46.6 1258 AIRFRAME 10-360-ES6B 357498 ENGINE (CIRRUS SR20) TELEDYNE C 46.6 46.6 PHC-J3YF-1RF FP1868B PROPELLER 46.6 46.6 ATA ACC Problem / Discrepancy (PD) ATA CA Dațe Hrs Mech Corrective Action (CA) Insp 34/501 Configured EHSI EHSI NAV select will not installation to accept GNS430 allogps to be selected gps. system now works 34/10) Could not duplicate 34/40 ~ 5% BSS 1.0 2 Gyro invalid inualid message. Ran message on EHSI + gyro for 1.5 EHSI hours. All ops checks

		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page _	<b>2</b> of				
Reg#:	(N) 777ND			Work Order #: 1027454							
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
3	Autopilot when in	22/10	)	Connected system	22/	N	4/24	2.0		KAP	3 3 S
	appr mode, fail		_	break out box and	22/10	N	5/01	20		BZZ	3
	light comes on and			checked GS inputs	$\coprod$						
	off during coupled			to computer, they	4					-	
	appr.			check good . + roublest	, o+						
	11			to defective comput	er_			_	- 1		
PN	01192-4-53-30P			shipped for repair	1		-			,	
SN	4468		2	Received repaired computer	1 1					10-110	- 10 TO THE
				Installed in A/C. Autopilot ap	5					==	1
				checks good on all function	45						
					appliar	nde identi	fied above	e was re	paired a	propeller,	d io
					Admin found	is ration v	vith respe	ct to the	work pe	Federal Av rformed and reum to se	1
					4 4 4		station C	191		( 3 )	
						t,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-		

MEGGITT				<b>RPO</b> 30899	
University of hour Daketa	Date: Date Received:	4/3	5.03		A 8 0254
	Zip: 59	8202	DC		PONENT_SYS  ARTIMODEL NO
rem Type:  Model:  Serial Number:  Reg. Number:  N/A  N/A  N/A	How Re	ceived:	Terms:	Return S	NO D
vair Order / Work Performed:	Hours:	Qty:	Part Number:	Description:	AINTE SS SS SS STEER ON THE STE
192-4-53-30P	1.5	. 1	7200282-1	CENTER	AINTENANCE RELEASE  SERIAL NO.
CONFIRMED FAILURE	2, 7	1111			SERIAL SE
EPLACED CENTER BRD ASSY.	1	146		* 1 Aug	EASE NO. NO. With with the wind to
ERFORMED ECOST 13151, 13153, 13168,12519	13.5	14.			W HO TEEL ON
					1 B
- Later Million Commission Commis	Sec.			13,73	PN88
	-				ctional at a company of the company
,	10-10	1 6.	•		
	1	Remar	ks:		Iotal Paris:
	34 10				Total Labor:
				• • • •	Tax:
	1	128	J	いらりっ	Total Amount:
	40.0	The a	ircraft or appliance identifi	ed herein was overhous	aled renaized or functional tested and increase
die grand the state of the stat	1 1	10 00.	vice. Pertinent details are o	n file at this repair state	ration Regulations and is approved for return tion under the above repair order number.
	1	Rep:	Insp:	15011	Date: 04-30-03
	- 1	I hereby	authorize the above repair work to	be done along with necessary	materials and hearly
· · · · · · · · · · · · · · · · · · ·	11	ledged articles	on above aircraft to secure the amou left in aircraft in case of fire, theft, a	int of repairs thereto. You will	materials, and hereby grant you and/or your employees redever at my risk. An express mechanic's lien is acknow- l not be held responsible for loss or damage to aircraft, or yound it's control. Payable in Mineral Wells, Texas.
		Autho	orized by:	, other cause bey	yong it's control. Payable in Mineral Wells, Texas.
The state of the s			Tumber: 2100	Q Terms	
	1. 15	Retur	ned for:	STR	ICTLY CASH without prior arrangem
the state of the s	h. 0 .	31 700	40.0	the contract	throat prior arrangers
	10 m	15	Jack	in appr	COCH DECLE

## AIRCRAFT PRINT STATUS AS OF 10/20/2005

N#: <b>N777ND</b>	Make:	SR20		Model:	SR20
DO NOT OVERFLY>	DATE:	01/31/2006	TACH:	108.8	CYCLES:

NOTE: In accordance with the University of North Dakota Piper Progressive Inspection Program, Phase Inspections 1, 2, 3, or 4 may be flown 5.0 hours beyond the  $\underline{\text{due}}$   $\underline{\text{tach}}$  time.

				DATE
	DUE	DUE	DUE	LAST
MAINTENANCE DESCRIPTION	DATE	TACH	CYCLES	COMPLETE
	========	=====	=====	========
50 Hour Insp		103.8		10/20/2005
100 Hour Insp		153.8		10/20/2005
Aux vac. pump replacement	10/31/2012	2042.3		
T/C Roll Computer Batteries replacement	01/31/2006			01/16/2005
Yearly ELT Insp (IAW 91.207d)	01/31/2006			01/16/2005
Annual Insp	04/30/2006			04/05/2005
Altimeter Check	09/30/2006			09/28/2004
Altitude Encoder Check	09/30/2006			09/28/2004
Static Check	09/30/2006			09/28/2004
Transponder Check	09/30/2006			09/28/2004
Aileron-Rudder Interconnect shock cord replaceme	10/31/2007			
CAPS Reefing Line Cutters replacement	03/31/2008			01/16/2005
ELT Battery	03/31/2008		_	08/30/2002
CAPS Parachute replacement	08/31/2012			
CAPS Rocket Motor replacement	08/31/2012			

\* Phase, 100 HR, or AD Inspection

AUTHORIZED SIGNATURE

-AND 108 065R092N DATE 10-20-05

Print Name Chad Castson

## AIRCRAFT PRINT STATUS AS OF 01/05/2006

N#: N777ND

Make: SR20

Model: SR20

DO NOT OVERFLY--> DATE: 01/31/2006

TACH: 108.8

CYCLES:

NOTE: In accordance with the University of North Dakota Piper Progressive Inspection Program, Phase Inspections 1, 2, 3, or 4 may be flown 5.0 hours beyond the <u>due</u> tach time.

	DUE	DUE	DUE	DATE
	DATE	TACH	CYCLES	COMPLETE
MAINTENANCE DESCRIPTION	DATE		======	========
		102 0		10/20/2005
50 Hour Insp		103.8		
100 Hour Insp		153.8		10/20/2005
Aux vac. pump replacement	10/31/2012	2042.3		
T/C Roll Computer Batteries replacement	01/31/2006			01/16/2005
Yearly ELT Insp (IAW 91.207d)	01/31/2006			01/16/2005
Annual Insp	04/30/2006			04/05/2005
Altimeter Check	09/30/2006			09/28/2004
	09/30/2006			09/28/2004
Altitude Encoder Check				09/28/2004
Static Check	09/30/2006			300 200 EU 300 EU 300 EV 300 AU 300 AU
Transponder Check	09/30/2006			09/28/2004
Aileron-Rudder Interconnect shock cord replaceme	10/31/2007			
CAPS Reefing Line Cutters replacement	03/31/2008			01/16/2005
ELT Battery	03/31/2008			08/30/2002
CAPS Parachute replacement	08/31/2012			
Nagara (10) Nata (10) (10) (10) (10) (10) (10) (10) (10)	08/31/2012			
CAPS Rocket Motor replacement	00/01/2012			

\* Phase, 100 HR, or AD Inspection

AUTHORIZED SIGNATURE MORGAN Street AND CRS OGEROGON DATE 1/4/06

Print Name Movgan R. STROK

Compo	nent Times Report for N7	77ND			4/00/0004		
Make:	SR20 Model: SR20				4/20/2004 0	8:09:15	Page 1 of 1
	Part#	Serial#	Description	<u>TBO</u>	TSO	<u>Time</u> Remain	<u>Total</u> <u>Time</u>
U/D	SR20	1258	AIRFRAME	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	106.0		
U/D	12731-001	428012	ALTIMETER		106.0		106.0
U/D	01192-4-53-30P	4408	AP COMPUTER		59.4		106.0
U/D	15047-001	00594	CAPS ROCKET MOTOR				59.4
U/D	12616-001	304	EGT/CHT METER		106.0		106.0
U/D	A-30	80574	ENCODER		6.4		6.4
U/D	IO-360-ES6B	357498			106.0		106.0
U/D	GNS430	97110592	ENGINE (CIRRUS SR20) TELEDYNE C		106.0		106.0
U/D	GNS430		GPS		94.2		94.2
U/D	15046-001	97110738	GPS		94.2		94.2
U/D		00259	PARACHUTE		106.0		106.0
U/D	PHC-J3YF-1RF	FP1868B	PROPELLER		106.0		106.0
0/0	GTX327	83710986	TRANSPONDER		106.0		106.0



## OVERHAUL AND REPLACEMENT SCHEDULE

## 1. DESCRIPTION

The following items must be overhauled or replaced at the following intervals unless otherwise noted. To ensure correct observation of these times, the date of removal, installation, or overhaul of such components as well as the airplanes flight hours must be entered into the Service Time Record filed in the Airplane Maintenance Log.

	ltem	Interval	Replc.	O'haul	Notes
.  E	Engine	Per Manufacturer. (Recommended 2000 Hours)		0	Refer to Teledyne Continental Motors Service Letter SIL 98-9.
1	Propeller Governor - Serials 1005 thru 1336 w/ Woodward governor	Per Manufacturer. (Recommended 2400 Hours)		0	Refer to Woodward Governor Company Service Bulletin 33580F.
	Propeller Governor - Serials 1337 & subs w/ McCauley governor	Per Manufacturer. (Recommended 1800 Hours or 5 years - whichever comes first.)		0	Refer to McCauley Propeller Systems Service Bulletin 137.
4.	Magnetos	Per Manufacturer. (Recommended at Engine Overhaul)	0	allering.	Refer to Teledyne Continental Motors IO-360 Overhaul Manual X30594A.
5.	Propeller	Per Manufacturer. (Recommended 2400 Hours or 6 Years - whichever occurs first)	6	O CHICK!	Refer to Hartzell Propeller Service Letter 61.
6.	Alternator 1	Per Manufacturer. (Recommended 500 Hours)	60	0	Refer to Teledyne Continental Motors IO-360 Overhaul Manua X30594A.
7.	Alternator 2	Per Manufacturer. (Recommended 1700 Hours)	200 9	0	Factory Overhaul.
8.	Battery 2	2 Years or 500 Hours.	0	100	Refer to 24-30.
9.	Induction Air Filter	At Annual Inspection or 200 Hours - whichever occurs first.	0	- L	If at any time, the filter is found to be more than 50% covered by foreign material, replace filter.
10	D. Muffler and Heat Exchanger	1000 Hours.	0		Refer to 78-20.
	1. Flexible Fuel Lines	5 Years.	0		Refer to 71-70.
12	2. Fuel System Boost Pump	10 Years.	0		Refer to 28-20.

12137-001 15 Sep 2004 5-10 Page 1



	Item (Continued)	Interval	Replc.	O'haul	Notes
12	Gascolator Seals	5 Years.	0	Dep 6.6	Refer to 28-20.
	Fuel System Drain Valve Seals	5 Years.	0	H 1 - 1	Refer to 28-10.
(43	Flexible Oil System Lines	5 Years.	0		Refer to 71-70.
	Flexible Brake System Lines	5 Years.	0	1	Refer to 32-42.
	Brake Assembly O-Rings	At Annual Inspection or 100 Hours - whichever occurs first.	0		Refer to 32-42.
18.	Aileron-Rudder Interconnect Shock Cord	5 Years.	0		Refer to 27-20.
19.	Emergency Locator Transmitter Batteries	Batteries at expiration date or after 1 hour use - whichever occurs first.	0		Refer to ACK Technolo- gies Model E-01 Installation and Operation Manual.
20.	Fire Extinguisher	20 Years.	0	2	Refer to 26-20.
21.	Turn Coordinator Batteries	Batteries at Annual Inspec- tion or after emergency use - whichever occurs first.		Property of the second	Refer to 24-30.
22.	Engine-Driven Vacuum Pump	1200 Flight Hours.	0		Refer to 37-10.
23.	Dry Air Pump Coupling (Engine-Driven Vacuum Pump)	6 Years from date of manufacture.	0		Refer to Airborne Service Letter # 17 B dated 16 August 1991 or later revision.
24.	Electric Vacuum Pump	3000 Flight Hours or 10 Years - whichever occurs first.	0		Refer to 37-10.
25.	Instrument Air Filter Element (paper)	500 Flight Hours, annually, or when either vacuum pump is replaced - whichever occurs first.	0		Refer to 37-10.
26.	Vacuum Regulator Garter Filter Element (foam)	100 Flight Hours or annual - whichever occurs first.	0		Refer to 37-10.
27.	Check Valve Manifold and Check Valves	10 Years from date of manufacture.	0		Refer to Airborne Product Reference Memo # 39 dated 31 January 1996 or later revision.

12137-001

5-10



	Item (Continued)	Interval	Replc.	O'haul	Notes
28	. Cirrus Airframe Parachute System (CAPS) Rocket Motor	10 Years.	0		Replace with new or recharged unit. Refer to Chapter 95 Special Purpose Equipment for CAPS maintenance practices.
29	Cirrus Airframe Parachute System (CAPS) Parachute	10 Years.	0		Replace with new or over- hauled (inspected/ repaired/repacked) unit. Refer to Chapter 95, Special Purpose Equipment for CAPS maintenance practices.
30.	Cirrus Airframe Parachute System (CAPS) Reefing Line Cutters	Serials 1005 thru 1026: 3 years, 6 years thereafter. Serials 1027 & subs: 6 years.	0		Replace with new line cutters. Refer to Chapter 95, Special Purpose Equipment for CAPS maintenance practices.
31.	Inflatable Restraint System Electronic Module Assembly	7 Years 14 Years	0	О	Factory Overhaul.  Replace with new unit.  Refer to Chapter 25,  Equipment and  Furnishings.
	Inflatable Restraint System Inflator Assembly	7 Years		0	Factory Overhaul.
	•	14 Years	0		Replace with new unit. Refer to Chapter 25, Equipment and Furnishings.

CAUTION: Airplane control surface balance is critical to flight safety. Removal and/or addition of any paint or body filler to a control surface requires that the control surface be re-balanced.

# VOR EUQIPMENT CHECK LOG

'AIRCRAFT MODEL <u>5/20</u>

Type of Check

- 1. VOT
  2 VOR Designated Point-Ground
- 3. VOR Designated Point-Airborne
  4. Self Select-Airborne
  5. Dual VOR

C:\WORK\VOREQUIP.WPD

S/N 1258

Registration <u>N777NO</u>

S/N = 12	38	Kegistration				
DATE	A/C TIME	LOCATION/VOR	BEARIN VOR 1	G ERROR VOR 2	TYPE CK.	SIGNATURE
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PD# PD-GAMA Part# / Serial#

RT SUNVISOR BROKEN. 25-10-

CA# CA-GAMA ACC Date Hrs Tech Insp

1 25-10- N 12/07/05 0.4 SFB SFB INSTALLED NEW BLADE PER CH 25-10, CIRRUS MAINT MANUAL.

Part#:12698-003

Serial#:

Qty: 1 ACC:N SUN VISOR

the state of the s

Other

Transaction	WKO#	sist	Part#	Serial#	Qty	Date	ACC	Description
Requisition	1043656	II/D	84N1376		4	04/11/05	N	SPRING LATCH LOCK
Requisition	1043656		84N1376		-4	04/11/05	N	SPRING LATCH LOCK
Requisition	1043656	-	92N3440		10	04/11/05	N	INSERT/ EXTRACT TOO
Requisition	1043656		92N3440			04/11/05	N	INSERT/ EXTRACT TOO
Requisition	1043656		92N3456		4	04/11/05	N	SCREWLOCK SET
Requisition	1043656		92N3456			04/11/05	N	SCREWLOCK SET
Requisition	1043030	0/0	J2NJ450					
Credit# 1003379	1027460	U/D				07/02/03	W	
Credit# 1003379						07/02/03		
Credit# 1003380			646220A2		1	07/11/03		STARTER ADAPTER
Credit# 1003434			11627-001			07/23/03		SELECTOR VALVE
Credit# 1003433			12648-001		_	09/11/03		VACUUM GAUGE
Credit# 1003574 Credit# 1003577			12616-001	435		09/11/03		EGT/CHT METER
Credit# 1003577			12616-001	304		09/16/03	N	EGT/CHT METER
Credit# 1003788			12010-001	301	_	08/10/04	W	
Credit# 1003788						08/11/04	W	
			12457-002		1	11/26/04	W	SWITCH
Credit# 1004229			12457-002		-	11/10/04		
Credit# 1004281			70084-001		1	01/31/05		RECLINE LOCK KIT
Credit# 1004355			70097-001			01/31/05	-	SLEEVE
Credit# 1004356			01192-4-53-30P	4408		05/01/03		AP COMPUTER
Repair# 1010530			646220A2	4400		05/20/03		STARTER ADAPTER
Repair# 1010823				07222703		11/10/04		DIRECTIONAL GYRO
Repair# 1015084			4305-150 GTX327	83710986		09/28/04		TRANSPONDER
Repair# 1015110			GTX327 G243	G02044287		10/18/04		BATTERY
Repair# 1015328			G243	902044207	-	11/12/04		DATIENT
Repair# 1015655						01/12/05		
Repair# 1016266			C21.4D	02071389	1	01/12/05		MAGNETO ( REPAIRED
Repair# 1016279			6314R	02071389		01/14/05		MAGNETO ( REPAIRED
Repair# 1016280			6314R	02071390		03/17/05		SEAL
Repair# 1016842			14529-001	83707422		04/13/05		TRANSPONDER
Repair# 1017051				83707422		05/23/05		BRAKE DISC
Repair# 1017576								BRAKE DISC
Repair# 1017577			164-244			05/23/05		OUTBOARD HINGE AILE
Repair# 1017609			10333-006	00712060		05/27/05		TRANSPONDER
Repair# 1017670			GTX327	83713868		06/17/05		
Repair# 101843						09/02/05		EGT PROBE
Repair# 101924:			12638-002		1	11/17/05		FUEL LEVEL SENDING
Repair# 101944	9 1048485	U/D				12/12/05	N	

(End of Detail)



May 10, 2004

Ease LLC. 4300 Dartmouth Dr., Suite 175 Grand Forks, ND 58203

Mr. O'keefe,

In regards to your request for the registration of 777ND, from the previous owner, I will be unable to return it to you. When you first contacted me to provide pilot service in your aircraft an initial preflight inspection of the aircraft was done. During that inspection it was found that both the old registration as well as the pink slip for the new registration were in the aircraft, the old one was removed. When your request for the registration was received the aircraft book, POH, maintenance records and the aircraft itself were all checked, unfortunately the registration could not be found. I am certain the old registration was discarded after it was removed from the aircraft.

If you have any further question you can contact me at GFK Flight Support.

Respectively,

Ronald A. Scheibe Assistant Chief Pilot

**GFK Flight Support** 





-	QTY.	MATERIAL/PARTS	PRICE	AMOUNT	CIRRUS DESIGN FACTORY SERVICE CENTER  4515 TAYLOR CIRCLE  DULUTH, MN 55811  WO# 100405	/oF. 2-03	2
					(218) 529-7206 CRS #YD5R855Y JOB INFOR	MATION	
			1		ORDER DATE		
					WORK ORDERED BY	WO#	$\dashv$
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					JOB NAME/LOCATION		$\neg$
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ŀ	-		1		JAMES RAY 000.02		
- 1	_		-		ADDRESS	SERIAL#	
-					CITY STATE ZIP PHONE	/358 MODEL	-
L						SRAO	
					DESCRIPTION OF WORK	AMOUNT	1
					1. CLEANED A/C		5
Γ					2. REMOVED BUBBLES IN STRIPE RIH DOOR		25
Γ			2 -		3. REMOVED FOOTPRINT DN RIGHT SEAT		5
. 2			1000	Alberta	4 TOUCHED-UP COWL FASTNERS	1.	0
Γ					5. REMOVES DORT MARK RIH WING	•	5
					6. PAINTED RIH I'IB FLAP EDGE	13	0
					7. REMOVED BURBLES IN STRIPE LIH TAIL		25
	+				B. REMOUTED ADHESTUE AFT OF BAGG. DOOR		5
$\vdash$	+				9. PAINTED SCRATCH IN LET DOOR JAM	,	5
$\vdash$					10 REPLACED BOLSTER PANEL	/	5
		OUTSIDE REPAIRS			11. REPLACED NUL STRUT FATRING	2	0
Barry.	F. June St. Baker.	the comment is a second different contract to the second	- 1		12. APPLIED TOUCH-UP PAINT L.H. NLG-PANT		5
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					I have reviewed the file on this aircraft and/or engine and the accompanying discrepancy form's. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved/aisapproved for return to service. Pertinent details of repair are only at this Certified Repair Station CRS YDSRSSY.	10.	. 5
$\vdash$			- 200		Pertinent details of repair are on the at this Certified Repair Station CRS YDSR855Y.  Authorized Inspector:	າຊ	

			C.S. FOR BILL TO JAMES RAY				ORDER DATE  /O - O  WORK ORDERED  B. MELL  JOB NAME / LOCA	ER 106	N 40∂-0	
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20FZ



### CIRRUS SR20 and SR22 **CUSTOMER SERVICE**

SERIAL NO:

**REGISTRATION:** 

N777ND

**CUSTOMER: REGISTERED TO:** 

James Ray James C Ray

DELIVERY DATE: 10/3/02

Cirrus Design Customer Service

Daytime Phone: Mon-Fri 8:00am - 5:00pm CST 218-529-7202

After Hours Hotline: 1-877-4Cirrus (1-877-424-7787)

Rick Hagberg 218-529-7202

- Customer Service Representative

rhagberg@cirrusdesign.com

**Don Newman** 218-529-7232

- Parts / Warranty Administrator

dnewman@cirrrusdesign.com

**Russ Birkeland** 218-529-7284

- Customer Service Representative

rbirkeland@cirrusdesign.com

**Dan Mettner** 218-529-7291 - Customer Service Representative dmettner@cirrusdesign.com

**Gene Lewis** 

- Customer Service Representative

218-788-3167

glewis@cirrusdesign.com

**Chris Dixon** 218-788-3101 - Director of Maintenance cdixon@cirrusdesign.com

This document describes how to arrange service for your Cirrus SR20 or SR22 along with details of warranties on equipment in the aircraft not covered by the Cirrus Limited Warranty.

- 1. Who to call, where to go.
- 2. Warranty notes.
- Aircraft Paint.
- Warranty attachments (parts not included in the Cirrus Limited Warranty)
- Teledyne Continental (engine)
- Hartzell (propeller)
- **GARMIN International (Avionics)**
- ARNAV Systems (MFD)
- S-TEC Corporation (Autopilots)
- Sandel
  - 5. Cirrus Authorized Service Centers.

# Who to call, where to go.

Because the Cirrus SR20 and SR22 are new designs of aircraft many of the usual sources for information (flight instructors, your local technicians, etc.) about normal operation and service may not be familiar with some of the intricacies of these aircraft.

What's more - WE WANT TO HELP!

If you have any questions about the airworthiness, operation or safety of the SR20 or SR22, call us.

Cirrus has appointed a network of service centers for maintenance and service of the SR20 and SR22. Each of the centers have been inspected by Cirrus Customer Service and many have technicians at their facility who have visited the Cirrus factory and received training in maintenance practices for the SR20 and SR22. A complete list of these centers are in the appendices, and available to view on the company website at www.cirrusdesign.com.

These are the normal facilities used for SR20 and SR22 warranty service. If the aircraft is airworthy, these facilities are where Cirrus will ask you to take the aircraft.

Cirrus can coordinate the efforts of these service centers. Cirrus holds inventories of many parts required for service. Cirrus can arrange shipments from avionics and other suppliers regardless of who is offering the warranty.

# Warranty Notes.

Cirrus Warranty is not a substitute for normal inspection and maintenance, but does provide the new owner with protection against defects in material and workmanship for the airframe and installed equipment for a period of twenty-four months after delivery. The engine, propeller and avionics suppliers provide warranties as defined in the supplier's separate warranties. Copies of these warranties are provided to each new owner and become effective at the delivery of the aircraft to the first owner. All warranties are transferable without penalty.

Cirrus Warranty pays the labor cost to remove and replace and/or repair a defective part if that labor is provided by a Cirrus Authorized Service Center, or other Cirrus approved facility. At Cirrus' option warranty replacement parts may be new, overhauled or repaired parts, which will continue under, warranty for the balance of the original warranty period.

After the warranty period, all new, or exchange, parts sold by Cirrus carry a six (6) month warranty.

Parts which have been subject to misuse, negligence or accident, or which have been repaired or altered outside of the Cirrus factory, or normal wear and tear items, are not covered by warranty.

Parts beyond normal service life (defined by the SR20 and SR22 Maintenance Manual) are also not covered by warranty. For example the vacuum pump on the SR20 has a normal service life of 1,000 hours, the SR22 500 hours, and is only warranted up to that life.

Warranty replacement parts may be ordered from Cirrus Customer Service, or from any Cirrus Authorized Service Center. It is the owner's responsibility to return a defective part along with claim form information to any Cirrus Authorized Service Center. Cirrus pays normal shipping costs both ways between any Cirrus Authorized Service Center and Cirrus Customer Service for the replacement part, and for the removed part, if that part is determined to be defective. Parts will be shipped overnight at the customer's request and cost. Shipping cost for warranty replacement parts from Cirrus directly to the owner, or from a Cirrus Authorized Service Center to the owner's responsibility.

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# Aircraft Paint

Cirrus uses high quality polyurethane paints. Polyurethane paints are used because of their high gloss characteristics and ability to withstand dramatic temperature and pressure changes. The paint on your new aircraft will maintain its high gloss for an extended period of time provided it is cared for properly.

The painted exterior surfaces require an initial curing period, which may be as long as 90 days after the finish is applied. During this curing period, some precautions should be taken to avoid damaging the finish or interfering with the curing process. The finish should be cleaned only by washing with clean water and mild soap, followed by a water rinse and drying with a cloth or chamois. Do not use polish or wax, which would exclude air from the surface during this 90 day curing period.

Once the finish has cured completely, it may be waxed with a good automotive wax, but power buffing should be avoided to prevent damage to the paint surface.

Normal paint maintenance will include touch-up of abrasion and wear of the paint on the wing leading edges, vertical and horizontal stabilizers, wheel pants, windshield perimeter, and other leading edge surfaces.

Paint warranty applies only to defects in material and workmanship. Paint deterioration due to normal wear, exposure, or improper care is not covered by the warranty. If proper paint maintenance procedures have been followed and paint peeling, blistering or cracking is evident in areas other than immediate leading edge surfaces, warranty consideration may be requested through a Cirrus Authorized Service Center.

Generally speaking, warranty repair of paint is confined to a limited surface area. Workmanship or material defects are usually localized areas that were improperly prepared prior to paint application, or to areas where the paint or subsurface primer has been improperly applied.

Complete repaint of an entire airplane will only be authorized if there is evidence of paint defects on several major surfaces of the aircraft.

# Warranty attachments

Attached is a copy of the Cirrus Limited Express Warranty and other warranties that cover components and parts not included in that Cirrus Limited Express Warranty.

- Cirrus Limited Express Warranty
- Teledyne Continental (engine)
- Hartzell (propeller)
- GARMIN International (Avionics)
- ARNAV Systems (MFD)
- S-TEC Corporation (Autopilots)
- Sandel

# Cirrus Authorized Service Centers.

(Listed by State)

The list of Cirrus Authorized Service Centers is growing continuously. For an updated list, or to ensure that service on your SR20 or SR22 is performed as expeditiously as possible, remember to first call Cirrus Customer Service. A current list of Cirrus Authorized Service Centers are available on our company website at www.cirrusdesign.com.

# LIMITED EXPRESS WARRANTY

### **OBLIGATIONS OF CIRRUS**

Cirrus Design Corporation, Duluth, Minnesota, U.S., ("Cirrus") expressly warrants to the original owner that each new model Cirrus SR20 or SR22 aircraft manufactured by it, and new aircraft equipment, except as noted below, will be free from defects in material and workmanship under normal use and service for a period of twenty-four (24) months after delivery. Engine and engine accessories supplied by Teledyne Continental Motors ("Continental"), propeller and avionics supplied by third-party suppliers are specifically excluded from this warranty and are covered by their respective manufacturer's separate warranty.

Cirrus' sole and exclusive obligation under this warranty is limited to repairing or replacing, at its option, any part or parts, which it deems defective within the applicable twenty-four (24) month period. A defective part or parts shall be returned by the owner to an authorized Cirrus service center or other location designated by Cirrus. Replacement parts are warranted for the remainder of the applicable warranty period. (The location of Cirrus service centers will be furnished by Cirrus upon request.

The repair or replacement of defective parts under this warranty will be made without charge to the owner for parts and labor for removal, installation and/or actual repair of such defective parts, provided the labor is performed by a Cirrus authorized service center. Import duties and sales or use taxes, if any, on replacements are the owner's responsibility.

#### **EXCLUSIONS**

The provisions of this warranty do not apply to any warranted aircraft, equipment, accessories or service parts manufactured or sold by Cirrus which have been subject to misuse, negligence or accident, or which have been repaired or altered outside of the Cirrus factory in any way which in the judgment of Cirrus affect adversely its performance, stability or reliability. The provisions of this warranty do not apply to normal maintenance services (such as cleaning, control rigging, brake and other mechanical adjustments and maintenance inspections) or to the replacement of service items (such as light bulbs, brake linings, filters, hoses, and tires) made in connection with such services, to normal wear and tear or required as maintenance, or to normal deterioration of soft trim and appearance items (such as paint, upholstery and rubber-like items) due to wear and tear and exposure, or to any aircraft equipment, accessories, or service parts sold separately which have been installed by the purchaser. Any commercial use of the aircraft voids this warranty unless prior written authorization for such use is obtained from Cirrus.

Spare aircraft equipment, accessories and service parts actually sold by Cirrus (exclusive of products supplied by third-party suppliers which are covered by their separate warranties) are warranted for a period of six (6) months after installation or first use under the same terms, conditions and limitations of liability as other items covered by this warranty.

### **LIMITATIONS**

To the extent allowed by applicable law, THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED IN FACT OR BY LAW, INCLUDING ANY IMPLIED WARRANTY OF WORKMANSHIP, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE. THE REMEDIES OF REPAIR OR REPLACEMENT AS ABOVE SET FORTH ARE THE SOLE AND EXCLUSIVE REMEDIES UNDER THIS WARRANTY. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED. THIS WARRANTY IS IN LIEU OF ANY OTHER OBLIGATION OR LIABILITY OF CIRRUS OF ANY NATURE WHATSOEVER by reason of the manufacture, sale, lease, or use of such aircraft products, and Cirrus neither assumes nor authorizes anyone to assume it for other obligation or liability in connection with such aircraft.

### SOLE WARRANTY

The Obligations, Exclusions, Limitations, and Conditions contained herein are the sole warranty provided by Cirrus and its dealers and service centers. Cirrus and owner agree that there are no other obligations whether oral or in writing beyond this Limited Express Warranty.

Customer Copy



Form No. QA-85

# Teledyne Continental Motors, Inc.

# Engine Component Information Sheet

Printed:

08/24/2002

Serial:

357498 AC 1258

Assembled:

08/21/2002

Spec:

I0360ES6B

Shipped:

New/Rebuilt:

(NEW)

Packed:

08/24/2002

Customer Name:

CIRRUS DESIGN CORPORATION

Shipping Address:

Component	Serial Numbe	r Component	Serial Number
CAMSHAFT	Z02FA347	NOZZLE SIZE	10J
CRANKSHAFT	N02FA429	METERING UNIT	A02HA042
CRANKCASE	S02GA099	STARTER	021580021
CONNROD	AE02GB358	ALTERNATOR	C081327
CONNROD	AE02GB382	OIL COOLER	G02194627
CONNROD	AE02GB394		
CONNROD	AE02GB401		
CONNROD	AE02GB415		
CONNROD	AE02GB422		/
L MAGNETO	02071390		*
R MAGNETO	02071389		
FUEL PUMP	В02НА056		
MANIFOLD VALVE	С02НА053 М		



### Pack Inspection Stamp

All of the information provided herein is subject to verification by the user. Teledyne Continental Motors, Inc. makes no representation or warranty concerning the accuracy or completeness of the information and assumes no responsibility with respect thereto.



# CONTINENTAL MOTORS TOP CARESM CYLINDER WARRANTY

This TopCare Cylinder Warranty provides special warranty coverage for cylinders and related parts shipped from Teledyne Continental Motors' plant on or after August 1, 1999 provided certain eligibility requirements are met. In the event that the eligibility requirements for this TopCare Cylinder Warranty are not met, the terms and conditions of the Teledyne Continental Motors (TCM) Aircraft Engine Part, Component & Accessory Warranty will apply.

- 1. Engines Eligible for TopCare Cylinder Warranty Coverage: Any TCM aircraft engine meeting the eligibility requirements of Paragraph 2 of this warranty is eligible for coverage.
- 2. Eligibility Requirements: This Top Care Cylinder Warranty applies only to cylinders and related parts shipped from TCM's plant on or after August 1, 1999. For purposes of this warranty, the cylinder and related parts are defined as the cylinder, cylinder intake and exhaust valves, valve inserts, valve guides, valve springs and their retaining parts, pistons, piston rings and related O-rings and gaskets. To be eligible for TopCare Cylinder Warranty coverage these parts must be installed together and used in combination with each other.

### Required TopCare Health Check Inspections

To be eligible for coverage under this TopCare Cylinder Warranty and to maintain that coverage the aircraft must be inspected at a Fixed Base Operator (FBO) facility in accordance with the TopCare Health Check Inspection set forth in the latest revision of TCM Service Information Directive 97-2 (SID 97-2) as follows:

- (A) For new aircraft: Each new aircraft powered by a TCM engine shipped from TCM's plant on or after August 1, 1999 is covered by this TopCare Cylinder Warranty. To maintain coverage the aircraft must be inspected at least once per year in accordance with the TopCare Health Check inspection set forth in the latest revision of SID 97-2 and any discrepancies corrected at that time.
- (B) For aircraft in service: For an aircraft in service in which a new or rebuilt aftermarket TCM engine shipped from TCM's plant on or after August 1, 1999 or for an aircraft having an engine in which a new cylinder supplied by TCM on or after August 1, 1999 is installed, the TopCare Health Check Inspection must be performed at time of installation and at least once per year thereafter in accordance with the TopCare Health Check Inspection set forth in the latest revision of SID97-2 and any discrepancies corrected at that time.

### **Enrollment and Documentation Requirements**

Each new aircraft powered by an engine that incorporates cylinders and related parts shipped from TCM's plant on or after August 1, 1999 is covered and no enrollment is required. For other than new aircraft, enrollment under the TopCare Cylinder Warranty must be accomplished by performing the initial TopCare Health Check Inspection at time of engine (or cylinder) installation and correcting any discrepancies at that time. The TopCare Health Checklist Form attached to the latest revision of SID97-2 must be completed, signed by the inspecting mechanic and a copy returned along with the TopCare Cylinder Warranty Enrollment Form attached to the latest revision of SID97-2 to:

Teledyne Continental Motors Attn: Warranty Services P.O. Box 90 Mobile, Alabama 36601-0090

To maintain coverage under the TopCare Cylinder Warranty, the TopCare Health Check Inspection must be performed at least once per year and any discrepancies corrected at that time. The TopCare Health Checklist Form must be completed for each inspection, signed by the inspecting mechanic and retained by the owner for submittal to TCM with any claim under the TopCare Cylinder Warranty. Each required

TopCare Health Check Inspection must have been properly performed and documented on the TopCare Health Checklist Form. The TopCare Health Checklist Form for each inspection must be submitted to TCM with any claim under this TopCare Cylinder Warranty. Copies of work orders documenting the performance of the required TopCare Health Inspection and correction of any discrepancies must also be submitted to TCM upon request.

# 3. TopCare Cylinder Warranty Coverage:

- (A) For a period of twelve (12) months or one thousand (1000) hours of operation, whichever occurs first, after the warranty activation date, TCM will at its option repair or replace on an exchange basis any cylinder component or related part manufactured or supplied by it which within the applicable twelve (12) month or one thousand (1000) hour period is returned to a representative of TCM authorized to handle the engine in which the cylinder component or related part covered by this warranty is installed and which upon examination by TCM is found to be defective in material or workmanship. For cylinders installed in new or rebuilt engines, the warranty activation date is the date the engine is first operated for any use or the 180<sup>th</sup> day after TCM's invoice date, whichever occurs first. For cylinder components purchased as aftermarket replacement components, the warranty activation date is the date the cylinder is first operated for any use. TCM will pay for reasonable labor costs associated with repairs or replacements under paragraph 3(A) of this warranty and for "troubleshooting" costs associated with identifying the need for such repairs or replacements when coordinated through an authorized TCM representative. The amount of repair or replacement labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30552, published by TCM. The amount of "troubleshooting" costs allowed will be the reasonable costs under the circumstance of identifying the need for such repairs or replacements, but in no event will the "troubleshooting' costs allowed exceed fifteen percent (15%) of the labor costs associated with such repairs or replacements allowed by TCM. No "troubleshooting" cost allowance will be made where the need for repairs or replacements is identified in the course of overhaul, routine maintenance or on the basis of an obvious defect.
- (B) After the expiration of the twelve (12) month period described in paragraph 3(A) and before the expiration of an additional twenty-four (24) month period or expiration of one thousand (1000) hours of operation, whichever occurs first, TCM will at its option repair or replace on an exchange basis any cylinder component or related part manufactured and supplied by it which is found to the satisfaction of TCM to be defective in material or workmanship.
- (C) In the event that TCM elects to repair in the field, rather than replace any cylinder component or related part under paragraph 3(B) of this warranty, TCM will pay labor costs for the repair of the cylinder component or related part only. The amount of repair labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30522, published by TCM. TCM will not assume any responsibility for labor costs for the removal and/or reinstallation of the cylinder component or related part, costs for "troubleshooting" or any other labor costs associated with repairs or replacements under paragraph 3(B) of this warranty.
- (D) TCM reserves the right at its option to replace any defective cylinder component or related part with either a new or rebuilt cylinder component or related part.
- (E) Repair or replacement of any cylinder component or related part under this warranty will not extend the period of warranty coverage set forth above.
- (F) TCM will not assume any responsibility for transportation costs in connection with the repair or replacement of any cylinder component or related part under this warranty, except when such transportation has been expressly authorized by TCM. When authorized, transportation cost reimbursement for cylinder components will be the actual surface freight cost or the currently published UPS surface rate schedule, whichever is less.
- (G) This warranty applies only to cylinders in which parts manufactured or supplied by TCM or parts manufactured pursuant to an FAA Parts Manufacturer Approval have been used and nothing contained herein should be construed as a warranty by TCM of any cylinder or related part not manufactured or supplied by TCM. TCM accepts no responsibility for the failure of any cylinder or related part which it does not manufacture or supply or damage resulting from such failure.

- (H) This warranty also applies only to cylinders and related parts on which the installation, inspection, maintenance and operating instructions and recommendations contained in the appropriate operator's manual, overhaul manual and applicable service bulletins have been complied with. Performance of recommended inspections and maintenance must be documented by appropriate logbook entries and a copy of the logbook must accompany any cylinder and related part being returned for warranty consideration.
- (I) This warranty does not apply to any cylinder or related part manufactured or supplied by TCM which has been subject to misuse, neglect or accident or which has been installed, repaired, maintained or altered in any way that in the judgment of TCM has adversely affected the condition of the engine or which has been operated beyond factory recommendations (such as, but not limited to RPM, temperature, manifold pressure, fuel flow and proper system adjustment).
- (J) TCM will not be responsible for repair or replacement of cylinder components or parts damaged or worn as a result of corrosion, pre-ignition/detonation, operation with non-calibrated engine gauges, improper fuel system adjustment, non-TCM approved fuel and oil grades or additives and installation of parts, components or accessories that alter the engines' original type design.
- (K) The provisions of this warranty do not apply to normal maintenance service or to the replacement of normal service items. This warranty does not cover any costs related to the performance of the TopCare Health Check Inspection.
- (L) TCM reserves the right to change any part specifications or prices without incurring any responsibility with regard to engines or parts previously sold or replaced.
- (M) THIS WARRANTY IS A WARRANTY TO REPAIR OR REPLACE AND NOT A WARRANTY OF THE CONDITION OR FUTURE PERFORMANCE OF THE PRODUCTS WHICH IT COVERS. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, SPECIFICALLY, BUT WITHOUT LIMITATION, THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL TCM BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY DEFECT IN ANY CYLINDER OR RELATED PART, ARISING OUT OF THE FAILURE OF ANY CYLINDER OR RELATED PART TO OPERATE PROPERLY, OR ARISING OUT OF ANY BREACH OF THE WARRANTY MADE HEREIN. No person is authorized to give any other warranty or to assume any additional obligation or liability on behalf of TCM.



P.O. Box 90 • Mobile, Alabama 36601 (334) 438-3411

# ENGINE WARRANTY REGISTRATION

This is your **ENGINE WARRANTY/RUST and CORROSION AWARENESS PROGRAM REGISTRA- TION** form. It is essential that it be properly completed and returned to TCM Warranty Department immediately. This will expedite processing of the claim should your engine require repair or replacement as provided in the appropriate warranty policy.

### PLEASE COMPLETE AND RETAIN FOR OWNER'S RECORD

TELEDYNE	Engine Model Şerial #			
CONTINENTAL MOTORS A Teledyne Technologies Company	Date of Installation Tach Time			
OWNER'S NAME	Aircraft Model Serial #			
OWNER'S ADDRESS	Year Manufactured Total Airframe Time			
CITY, STATE, ZIP	What Engine is being replaced?			
COUNTRYTELEPHONE	· · · · · · · · · · · · · · · · · · ·			
*	Serial # Model			
SIGNATURE	Hours			

## PLEASE COMPLETE AND RETURN TO TCM IMMEDIATELY TO REGISTER WARRANTY

CONTINENTAL MOTORS  A Teledyne Technologies Company		
OWNER'S NAME		
OWNER'S ADDRESS		
CITY, STATE, ZIP		
COUNTRYTELEPHONE		
SIGNATURE		

Engine Model	Serial #		
Date of Installation	Tach Time		
Aircraft Model	Serial #		
Year Manufactured	Total Airframe Time		
What Engine is being replaced?			
Serial #	Model		

Owners Validation Of Engine Preservation For Active And Stored Aircraft.

I certify that I have read and understand the information provided in SB M91-5 or current revision as applicable.

SIGNATURE	
	11 1

FORM M781-03 Rev. 8/00

### Cirrus Authorized Service Centers (by STATE)

#### Arizona

### Copporate Jetaline

Scottsdale Airport

(SDL)

14600 North Airport Drive

Scottsdale, AZ 85260

Mike Moyers Maintenance Manager

800 995 5387 (995 - JETS)

(480) 443 7267 Maintenance Direct

(480) 951 0815 Maintenance FAX

#### California

# PalMonto Aviation

Monterey Peninsula Airport

(MRY)

Millionair

100 Skypark Drive

Monterey, CA 93940

Chuck Humphreys, Director of Piston Maintenance

(831) 373 4151 - Main #

(831) 373 1511 - Maintenance

(831) 373 6239 FAX

### KimiDavidson/Avjationalne

Santa Monica Airport

(SMO)

2701 Airport Avenue

Santa Monica, CA 90405

Kim Davidson

(310) 391 6293

### รักพระมีเลยาให้เกิดเกิดเลย

John Wayne Airport

(SNA)

Orange County Flight Center

2980 Airway

Costa Mesa, CA 92626

Jay Ghanbarzadeh

(714) 433 2275

### TODSOWN AVERTON SALES

6100 S. Lindberg St.

Stockton, CA 95206

Mark Roush Service Manager

(209) 983 8082

(209) 983 8084 FAX

### Tracewind seavicing.

**Reid-Hillview Airport** 2505 Cunningham Avenue San Jose, CA. 95148 Tom Nicholson, Director Of Maintenance (408) 729 5100 (408) 729 0142 FAX

# AlbWostAlteraldEngine

San Carlos Airport 670 Airport Boulevard San Carlos, CA. 94070 Terry Medeiros, President (650) 593 8403 (650) 593 7992 (FAX)

# Stretimanizacio Sarvico inc

101 Hartley Place Santa Barbara Airport Goleta, CA. 93117 Chris Jewell, Director Of Maintenace (805) 967-8096 (805) 964 2162 FAX

### Colorado

# Arapanoe Aero

Centennial Airport: Douglas County (APA) 12760 East Control Tower Road Englewood, CO 80112 Scott Utz Adam Parts (303) 799 8386 (303) 708 9300 FAX

# COLOR (OF WINDS)

1360 Aviation Way Colorado Spring, CO. 80916 Craig Powell, President (719) 591 2065 (719) 574 3284

(303) 790 4516 FAX

#### Florida

# allamino le orio ane

Tallahassee Regional

(TLH)

3256 Capital Circle SW

Tallahassee, FL 32310

Bill Morgan, Fred Davis, Maintenance

(850) 574 4444

(850) 576 3515 Direct Maintenance Line

# antiling after Avillion Strates with

Vandenberg Airport Tampa

(VDF)

6582 Eureka Springs Road

Tampa, FL. 33610

David Moberg, Director of Maintenance

(813) 626 1515

(813) 623 6483

# Soutionat/Aoro aorifeanta

St. John's County

(SGJ)

4900 U.S. 1 North

St. Augustine, Fl. 32095

John Strohl, Cirrus Service Manager

(904) 824 1899 x20

(800) 692 2091 x20

(904) 824 6334 (FAX)

### Georgia

# Gardina Aviation specialists

Griffin Spalding Airport

(6A2)

215 Barry Whatley Way

Griffin, GA 30224

Bill Durden, VP Maintenance

(770) 412 7216

# Dukeaviation inc.

McCollum Airport

2601 Cessna Lane

Kennesaw, GA. 30144

Dan Kendali, President

(770) 427 4954

(770) 428 6180 FAX

### Illinois

DuPage Airport

(DPA)

----

3N060 Powis Road

West Chicago, IL 60185

Bruce Rebechini - Piston Service Manager

(800) 323 5966

(630) 584 3200

(630) 513 1249 FAX (service)

#### Indiana

# विक्रमानवरम्भवागनातन

Elkhart Municipal Airport

(EKM)

2060 Airport Road Hanger 39

Elkhart, IN 46514

Larry Crowder, Chief of Maintenance

(574) 264 5920

(574) 266 4040 (FBO)

(574) 266 4433 FAX FBO

(574) 262 4422 (Hangar #39 - Maintenance)

### រាសនិយាល់/ទាល់

**Dress Regional Airport** 

(EW)

6101 Flightline Drive

Evansville IN 47725

Jack Staples ''

800 473 2904

(812) 426 1225

### Montgomery William

11329 East State Road 32

Indianapolis Terry Airport

(TYQ)

Zionsville, In. 46077

Dan Montgomery, Owner

(317) 769 4487

(317) 769 3207 (FAX)

#### lowa

# Some leaving some

Decorah Airport

(DEH)

1705 State Highway 9

Mike Connell, Airport Manager

Decorah, IA 52101

(563) 382 8338

(563) 382 8338 FAX

# io and has been a second

1801 S. Riverside Drive lowa City, IA. 52246 Ron Duffe, Manager (319) 248 1200 (319) 338 3690

### งาน เการ์งเนตเลยากกระ

Sioux Gateway Airport

(SUX)

5815 Mitchell Street

Sioux City, IA 51111

Tom Leif, Director of Maintenance

(712) 258 6563

(712) 258 7584 FAX

(800) 747 3304

### Kentucky

#### Kentuck EL Maria de la Maria de la Maria de la Maria de la Maria de la Maria de la Maria de la Maria de la Maria de la El Maria de la Maria de la Maria de la Maria de la Maria de la Maria de la Maria de la Maria de la Maria de la

7079 Airport Road

(FGX)

Maysville, Ky. 41056

Brian Coleman, Owner

(606) 742 2084

(606) 742 2084 (FAX)

### Massachusetts

## iasionas Vitilon

Hanscom AFB

(KBED)

Hangar 1730

Bedford, MA 01731

Joe Frisolone - GM - Mail box 12

Joe Gardner - Chief Inspector

(781) 274 0105

(781) 274 0714 (FAX)

#### Michigan

#### Weilell Grade Will de la Company de la Compa

Battle Creek Kalamazoo International (A

2729 East Milham Rd.

Kalamazoo, MI 49002

Ralph Michalka

(616) 381 0790

(616) 381 9762 FAX

### Executive Air Transport

Muskegon County Airport
103 Sinclair Drive
Muskegon, MI 49441
Brad Ports, Director of Maintenance
(231) 798 2126
(231) 799 9953

### Minnesota

### Aleichen nicht ner Spraiert wir ihre

Anoka County - Blaine Airport

(ANE)

8891 Airport Road

A-2 '

Blaine, MN 55449

Bill Ahmann, Director of Maintenance

(763) 784 9165

(763) 780 4612 FAX

## elines Sarvica Canto aminiti

**Duluth International Airport** 

(DLH)

4515 Taylor Circle

Duluth, MN 55811

Chris Dixon, Director of Maintenance

(218),788 3101

### Quality Aviation incompared

Faribault Municipal Airport

3401 W. Trunk, Hwy 21

Faribault, MN 55021

Gerald Serres, Owner

(507) 332 0140

(507) 332 0139 (FAX)

### Missouri

# Thunder Aviation Spirit of St. Louis Airport

(SUS)

18369 Edison Avenue

Chesterfield, MO 63005

Scott Ritchie Director of Maintenance

(636) 532 5600

(636) 532 8494 (FAX)

(636) 836 1670 (PAGER)

### Nebraska

# Silvathawk-Aviation the

1751 West Kearney Ave. Lincoln Municipal Airport Lincoln, NE. 68524 Gene Luce DOM (402) 475 8600 (402 475 1422 (FAX)

**New Jersey** 

### uncom Rank Aviation

Lincoln Park Airport

(N07)

425 Beaverbrook Road

Lincoln Park, NJ 07035

Frank Galella, Maintenance & Avionics

(973) 633 0450

(973) 872 6256 FAX

### **New Mexico**

Santa Fe Municipal Airport

445 Airport Road

Santa Fe, New Mexico 87505

(505) 471 2525

1 800 263 7695 . .

(505) 473 7707 (FAX)

Tony Padilla Director Of Maintenance

### **New York**

## SVZAUSOJEKOGUIVO ATESOFIA

Syracuse Intl. Airport

211 Tuskegee Road

Syracuse, NY 13211

Kevin Kuc, Director Of Maintenance

(315) 455 5957

(315) 455 7068 (FAX)

### North Carolina

# Ah Garoong

P. O. Box 7668

Rocky Mount, NC 27804

Darryl Shearer, Director of Maintenance

(252) 977 1717

(252) 977 0604 (FAX)

### **North Dakota**

### IGEAST IGHT SUPPORT

2467 Air Cargo Drive Grand Forks, ND 58203 Brent Seifert President (701) 772 5504 (701) 772 8917 (FAX)

#### Ohio

### CHEOLOGYAVIATION LING

Akron - Canton Regional Airport

(KCAK)

5430 Louby Road, Building 17

Akron - Canton Regional Airport

North Canton, OH 44720

Chip Majors - D o M

(330) 499 9790

(330) 499 1736

www.g-force-aviation.com

Gforce@raex.com

### Oregon

### IIIISborov Wellondine

Hillsboro Airport

3565 NE Cornell Road

Hillsboro, OR 97424

Bill McKibbon, Service Manager

(503) 648 2831

### Pennsylvania

### AND WAY:

Lancaster Airport

(LNS)

P.O. Box 5403

Lancaster PA 17606-5403

500 Airport Road

Lititz, PA 17543

Jim Mazzante Director of Maintenance (pres 3)

(717) 569 4996

(717) 569 9734 FAX

(800) 247 8294 "AIR TAXI"

South Carolina

and with the second sec

Columbia Metropolitan Airport

(CMA)

2861 Aviation Way

West Columbia, SC 29170

Randy Kovalick Director of Technical Services

Mike Johnston

**Avionics Manager** 

(800) 849 0483 Maintenance Hot Line

(803) 822 5502 Randy

(803) 822 5552 Mike

South Dakota

Busines van introduction

Joe Foss Field

(FSD)

3501 Aviation Avenue

Sioux Falls, SD 57104-0197

Scott Barber, DoM

1-800 888 1646

(605) 336 8009 FAX

OUTSTANDANT TO THE STANDANT OF

Aberdeen Regional Airport

. (ABR)

P.O. Box 2140

Aberdeen SD 57402

Shannon Yesbe, Manager

(800) 848 8868

(605) 225 0115 FAX

Tennessee

Concorate Falights Management Inc.

Smyrna Airport

(MOY)

625 Fitzhugh Blvd.

Smyrna, TN. 37167

Dave Haffner

Allen Peralta

(615) 459 8883

(615) 459 7144 (FAX)

Texas

Addison Airport

(ADS)

4580 Claire Chennault

Monarch Air

Addison, TX 75001 .

(972) 931 0345

(972) 931 0450 (FAX)

### ใหญ่เกาส≡ระหญ่ง และกรุงเลย

William P. Hobby Airport

(HOU)

8601 Travelair

Houston, TX 77061

Mike Botkin, Director of Maintenance

(832) 868 7259

(713) 640 2348 FAX

1 800 HOU EXEC

### Somming the experience of the second

1815 Airport Drive

(HYI)

San Marcos, Texas 78666 Russell Stallings, President

(800 749 7982

(512) 353 0088 (FAX)

### 

8319 Thora Lane Hanger D-1

(DWH)

David Wayne Hooks Airport

Spring, TX. 77379

Cliff Davis, President

(281) 376 5418

(281) 257 0797 (FAX)

# Auroravaviation vine

355 McGregor Airport Road

McGregor Executive Airport

McGregor, TX. 76657

Michael Moore, Director Of Maintenace

(254) 848-2345

(254) 848-2555 FAX

#### Virginia

# Dillo Avition

Manassas Regional Airport

(HEF)

10501 Observation Road

Manassas, VA 20110

Charlie Schoenduby Director of Maintenance

(703) 361 2171

(703) 361 4478 FAX ·

Washington Wings Aloft

King County Int'l A/P @ Boeing Field (BF 8467 Perimeter Road South Seattle, WA 98108

Jim Musgrove - Director of Maintenance (206) 763 2113

(206) 979 2520 (cell)

(206) 767 9464 (FAX)

Norm-Permitten Menter and American

2810 West Washington Avenue Yakima, WA. 98903 Chris Castille, Director of Maintenance (509) 249 1300 (509) 248 1375 (FAX)

#### Wisconsin

Magnus Aviation Inc.
Sheboygan County Memorial Airport

(SBM)

N6187 Resource Drive

Sheboygan Falls, WI 53085

Jeff Magnus, Owner

(800) 242 7643

(920) 467 6151

(920) 467 8611 FAX

### Weedishawkilonane

Dane Co Airport
3603 Corben Court
Madison, WI 53704
(608) 268 5003
(608) 268 5006 Avionics
stuart@wisconsinaviation.com

Wist-onsingAylation-almost

Watertown Municipal Airport 1741 River Drive Watertown, WI 53094 Pete Schroeder DoM (920) 261 4567 (920) 261 9949 FAX

#### **Overseas**

### Australia

# Archerfield Airport

(OFD

P.O. Box 105

Archerfield, Queensland, 4108

Australia

Steve Maltby, Director

(07) 3272 9043

(07) 3272 9066 (FAX)

0412 373173 Mobile

maltair@tpgi.com.au E-Mail

#### Canada

#### eggat Aviation Indiana

Toronto Buttonville Airport 2833 16<sup>th</sup> Avenue Markham, Ontario L3R 0P8 John Leggat, DOM (905) 477 7900

(905) 477 8937 (FAX)

### **England**

# AKRI AVERIOR SORVIORS 400 33

**Turweston Aerodrome** 

Briddlesden Road

Brackley

Northhamptonshire

NN13 5YD UK

Joe Kuttappa - Director

001 (44) 1280 706616

001 (44) 1280 840033 FAX

001 (44) 1933 355127 Evenings

### France

#### P. Anno

Baitment 30 Aerodrome de Coulmmiers

77120 Mouroux

Pascal Crapart - Director Manager

Lucien Hebrard Technical Director

33 (0) 1 64750342 .

33 (0) 1 64750781

### Germany

# Beechcraft Sales & Service

**Augsburg Airport** 

Flughafenstrasse 5

Augsburg Germany D-8616

Hans Obermeier General Manager

49 821 7003 100

49 821 7003 153 FAX

## Rothartzijon@mitk

Flugplatz

Egelsbach Germany 63329

Gerd Spiegl, General Manager

49 6103 4002175

49 6103 4002700 FAX

#### Greece

### Globalt Alic Softy (cos S/A)

Marathon Airport

5 Erythrou Stavrou, Marousi

Athens Greece 15123

Panos Belesiotis - Maintenance

(301) 6815 050

(301) 6814 450 FAX

www.globalaviation,gr

### Netherlands

### Gondal Enterprises by a **Eelde Airport**

(EHGG)

Machlaan 20

9761 TK Eelde, The Netherlands

Rob G. Van Doorn, Director of Maintenance

011 31 5030 96060

011 31 5030 96090 FAX @ Sales

011 31 5030 98241 FAX @ Maintenance Shop

### **Switzerland** AeromecenicaSA

Aeroporto Cantanole di Locarno

CH-6596 Gordola

Switzerland

Stefano Scossa, General Manager

41 91 74 56689

41 91 74 53388

41 91 7454444 (FAX)

Sandel Avionics LLC (hereinafter referred to as "Sandel") provides the following limited warranty. If you should have any questions, please contact the avionics shop that sold you the SN3308 or contact Sandel directly.

# **愛NDITIONS OF LIMITED WARRANTY**

If during the one (1) year period from the date of original purchase or installation, your SN3308 is found on authorized inspection to have a defect in material or workmanship. Sandel or an authorized representative will repair such defect or replace the defective unit without charge for parts or labor. Routine maintenance work and the gresults of normal wear are not covered by this warranty except as noted.

For the next one (1) year Sandel will replace any individual electronic part, sub-assembly, or finished product judged by Sandel to be defective, without charge for parts. Parts replaced under this portion of the warranty are warranted for the remainder of the original product warranty or for 90 days (whichever period is longer).

Sandel reserves the right to utilize reconditioned subassemblies as warranty replacements in the repair of the product. In the event Sandel determines that the unit cannot be repaired, Sandel will replace the defective unit with either the same model product or one that is reasonably equivalent. At Sandel's discretion, replacement units repaired units may include software or hardware updates and revisions that alter some characteristics of the product.

should warranty service be required, the warranty period will be extended by the number of days that elapse between the date a direct is reported and the date that the repaired unit is returned. Sandel assumes no responsibility for payment of any repair services period by third parties including removal of the unit from the aircraft, inspection, packaging, handling, or installation unless such services authorized in advance and in writing by Sandel.

Sandel reserve the right to make changes, upgrades, and improvements to its poducts without incurring any obligation to install such changes, upgrades, and improvements in previously manufactured products.

If during the warranty period, title to the aircraft in which the product is installed is transferred the remainder of the warranty may be transferred to the new owner by notifying Sandel in writing of the transaction. Such notification must include complete address information for the original owner and the new owner as well as the N number and serial number of the aircraft and the serial number of the Sandel product.

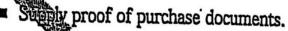
Please contact Sandel directly if you have any questions regarding the Sandel limited warranty. This limited warranty is applicable only in the fifty states of the USA and the District of Columbia. It is not applicable in the possessions or territories of the USA or in any other country. This limited warranty is the only warranty which Sandel makes with respect to your SN3308. Sandel disclaims all other warranties relating to the product including warranties of merchantability and fitness for a particular use.

In any event, Sandel shall not be liable for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages and some states do not allow limitations on how long an implied warranty may last; therefore, the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights that vary from state to state. In the event any of the provisions of this warranty are found by statute or by applicable administrative or judicial entity to be unenforceable, the remaining provisions shall remain in force.

# OWNERS RESPONSIBILITIES

Please read the Pilot's Guide of your SN3308 and the equipment to which it is connected. The information provided in your Pilot's Guide covers operation, safety precautions and routine maintenance. This warranty does NOT cover expenses incurred due to a lack of understanding of the functioning of the product when its operating as designed.

In order for Sandel to provide proper warranty service, you may be required to:



Permit Sandel or an authorized representative to provide the applicable warranty service during normal business hours.

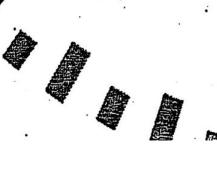
- Retain and provide to Sandel (upon request) any documentation of the installation of the product in your aircraft.
- Provide Sandel with all pertinent information regarding the symptoms, failure, or defect initiating the request for warranty service.

### EXCLUSIONS

This warranty does not cover the following:

- Projection lamp.
- Failures that are the result of improper installation, maintenance, or repair.
- Failures that result from neglect, abnormal strain, modification, accidental damage, theft, vandalism, or exposure to extremes in temperature or relative humidity.
- Products whose trademark, name, or identification numbers have been altered or removed.
- Radio frequency interference generated by equipment operated in violation of applicable FCC rules.
- Equipment purchased "As New" from a dealer or distributor not authorized by Sandel.

All product or material returned to Sandel must be properly packed and labeled with a Returned Material Authorization (RMA) number. Should proper packing materials not be available, Sandel will provide approved shipping container on request.





# ONE YEAR WARRANT

S-TEC Corporation agrees to repair or replace at its option, and without charge, any equipment, parts or accessories which under reasonable intended use are found to be defective as to design, workmanship, and material and which are returned to S-TEC or to an authorized S-TEC dealer, transportation prepaid, provided:

A. Installation of the equipment was made by an S-TEC authorize

facility.

B. Notice of claim is given S-TEC or authorized dealer as soon as practical.

C.A properly executed Warranty Certificate is presented to S-TEC

. or authorized dealer.

This warranty is void with respect to equipment which is altered modified or repaired without consent of S-TEC.

No other warranties, expressed or implied, shall be applicable to any equipment sold hereunder and the foregoing constitutes the users sole right and remedy.

S-TEC Corporation shall, in no event, be liable for incidental or consequential damages.



# CORDOR

TEC LINE AVIONICS AND FLIGHT CONTROL SYSTEMS

One S-TEC Way Municipal Airport, Mineral Wells, Texas 76057-9236 Phone: 817/325-9406; 1-800-USA-S-TEC; Fax: 817/325-3904 http://www.s-tec.com

# ARNAV Systems, Inc.

### Limited Avionics Warranty

ARNAV Systems, Inc., ("ARNAV"), 16923 Meridian East, Puyallup, Washington 86375 warrants to the first retall purchaser only, that so long as said purchaser owns the product, ARNAV, at its option, will repair or replace the product in which a defect may occur in design, material or workmanship, subject to the following CONDITIONS AND LIMITATIONS:

- (A) <u>USE:</u> The defect must occur under normal use and service for which the product was intended. ARNAV shall not be obligated or liable under this Warranty for defects which ARNAV's examination discloses are due to: (1) tampering, (2) misuse, (3) abuse, (4) neglect, (5) improper storage or maintenance, (6) use in a manner beyond which such equipment is normally intended to be used, (7) improper repair or poor workmanship by those who are not authorized by ARNAV to repair the products or use of defective material by such unauthorized persons, (8) and any other cause except for defects in design, material or workmanship caused by ARNAV.
- (B) WARRANTY REGISTRATION: The warranty card supplied with the product must be completed and returned to ARNAV within filteen (15) days from the date the installation of the ARNAV product is complete in the customer's alicraft, for this Warranty to become effective.
- (C) <u>PURCHASE & INSTALLATION:</u> The ARNAV product must have been purchased from and installed by an authorized ARNAV dealer, Original Equipment Manufacturer or authorized completion center or fleet maintenance center. A list of all authorized ARNAV dealers can be obtained by calling ARNAV at (253) 848-6050.
- (D) EVIDENCE OF INSTALLATION: ARNAV must receive a copy of the FAA Form 337 prepared by the installation facility; indicating the installation is in compliance with ARNAV approved installation procedures using evionics fan cooling in the purchaser's aircraft, or equivalent documentation showing installation of the ARNAV product by the authorized ARNAV dealer.
- (E) TRANSPORTATION & INSURANCE: For all warranty work, the product shall be returned to ARNAV via the dealer with the transportation charges prepaid. After correction of the defects, the products will be returned to the purchaser, transportation charges prepaid, except for returns in foreign countries, which shall be responsible for payment of such charges from the American port of exit to purchaser's place of business. The risk or damage to all products in transit shall be assumed by the party initiating the transportation of such products.
- (E) LENGTH OF WARRANTY TWENTY FOUR (24) MONTHS: All avionics products manufactured by ARNAV, unless otherwise specified under exceptions herein, are warranted to be free of defects in materials and workmanship for a period of twenty four (24) months from the date when the first installation is complete.

### 1. WARRANTY EXCEPTIONS:

- LIFETIME WARRANTY: ARNAV 50, R50I, R-5000, and FMS 5000 LORAN receivers are covered by a lifetime warranty to the first retail purchaser only, for normal private use in general existion operations conducted under U.S. FAR Part 91, or the corresponding regulations of a foreign country. The lifetime warranty is not valid for commercial operations conducted under U.S. FAR Part(s) 121, 125, 135, or commercial operations conducted under the laws of a foreign nation governing commercial operation of an aircraft. The warranty for the aforementioned products used in commercial flight operations is contained in paragraph (A), and is valid, subject to the CONDITIONS AND LIMITATIONS, for a pariod of twenty-four (24) months from the date when the first installation is complete.
- (b) ANTENNAS, PREAMPS, CABLES & HARDWARE: All entennes, preamplifiers, cables and hardware are warranted for a period of twelve (12) months from the date of installation.
- (d) HOMEBUILT/EXPERIMENTAL AIRCRAFT INSTALLATIONS: installations of ARNAV products in homebuilt and/or experimental alteraft must have, for this warranty to be valid, the installation inspected by an ARNAV approved installation facility and cartified to be in compliance with all ARNAV installation manuals and drawings.
- (d) REMANUFACTURED PRODUCTS: Remanufactured products are warranted for a period of one (1) year.
- (e) SERVICE: All products returned to the factory for service are warranted for a period of ninety (90) days.

This Warranty is limited to the original retail purchaser and is further limited by, and subject to, the availability to ARNAV of parts after seven (7) years from the date of purchase. Except where the product is used or purchased primarily for the purchaser's personal or family use, this Warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranties of merchantability or fitness for a particular purpose, if any, and said implied warranties are hereby expressly excluded and disclaimed.

Where the product is used or purchased primarily for the purchaser's personal or family use, any implied warranties of merchantability or fitness for a particular purpose, if any, are hereby expressly limited to one (1) year from the date of purchase of the product.

ARNAV shall not be liable for consequential, incidental or other types of damages, including without limitation, loss of use, lost profits, and personal injury. ARNAV expressly excludes and disclaims such damages resulting from or causad by, the use, operation, failure, malfunction or defect of any ARNAV product covered by this warranty, whether or not liability for such damages is due to tort (including negligence), contract, warranty, or strict liability.

Except as expressly contained herein, ARNAV makes no other warranties, expressed or implied, with respect to list product and disclaims the same.

# EGARMIN.

# AIRCRAFT OEM-INSTALLED AVIONICS 2-YEAR LIMITED WARRANTY CERTIFICATE

This GARMIN Product is warranted to be free from delects in materials or workmanship for two years from the date of warranty activation. Within this period, GARMIN international, Inc. will at its sole option, repair or replace any components which fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident or unauthorized alteration or repairs.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED OR STATU-TORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE, THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

IN NO EVENT SHALL GARMIN BE LIABLE FOR ANY INCIDENTAL SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

GARMIN retains the exclusive right to repair or replace the product or offer a full refund of the purchase price at its sole discretion, SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY.

To obtain warranty service, contact your local GARMIN authorized Service Center. For assistance in locating a Service Center near you, call GARMIN Customer Service at one of the numbers shown below.

GARMIN International
1200 East 151st Street
Olathe, Kansas 66062, U.S.A.
Toll free: 1-800-800-1020
Phone: 1-913-397-8200 FAX: 1-913-397-0836

GARMIN (Europe) Ltd.
Unit 5, The Quadrangle
Abbey Park Industrial Estate
Romsey, SO51 9AQ, U.K.
Phone: 44-1794-519944 FAX: 44-1794-519222

Visit our web site at: www.garmin.com

10034-00



# CONTINENTAL MOTORS NEW ENGINE WARRANTY

Each new aircraft engine shipped from Teledyne Continental Motors' plant on or after August 1, 1999 is warranted as follows:

- 1. (a) For a period of twelve (12) months or one thousand (1000) hours of operation, whichever occurs first, after the warranty activation date Teledyne Continental Motors (TCM) will at its option repair or replace on an exchange basis any engine, component or part manufactured or supplied by it which within the applicable twelve (12) month or one thousand (1000) hour period is returned to a TCM representative authorized to handle the engine covered by this warranty and which upon examination is found to the satisfaction of TCM to be defective in material or workmanship. The warranty activation date is the date the engine is first operated for any use or the 180th day after TCM's invoice date, whichever occurs first.
  - (b) TCM will pay for reasonable labor costs associated with repairs or replacements under paragraph 1(a) of this warranty and for "troubleshooting" costs associated with identifying the need for such repairs or replacements, when coordinated through an authorized TCM representative. The amount of repair and replacement labor costs allowed will be in accordance with the latest revision of the warranty 'labor allowance schedule, Form X30552, published by TCM. The amount of "troubleshooting" costs allowed will be the reasonable costs under the circumstances of identifying the need for such repairs or replacements, but in no event will the "troubleshooting" costs allowed exceed fifteen percent (15%) of the labor costs associated with such repairs or replacements allowed by TCM. No "troubleshooting" cost allowance will be made where the need for repairs or replacements is identified in the course of overhaul, routine maintenance or on the basis of an obvious defect.
  - (c) TCM will pay transportation costs in connection with the repair or replacement of any engine, component or part found to the satisfaction of TCM to be defective in material or workmanship under paragraph 1(a) of this warranty. The engine, component or part must be shipped prepaid to the repair facility designated by TCM. Transportation cost reimbursement for engines will be the actual surface freight charge or \$500.00, whichever is less. Engines must be described on the bill of lading as follows: "internal combustion engine, other than Radial Cyl RVNX \$5.00". Transportation cost reimbursement for components or parts will be the actual surface freight charge for shipment of the component or part or the currently published UPS surface rate schedule, whichever is less.
  - 2. (a) After the expiration of the applicable twelve (12) month period described above and before the expiration of an additional twenty-four (24) month period or expiration of one thousand (1000) hours of operation, whichever occurs first, TCM will, except as excluded below, at its option repair or replace on an exchange basis any component or part manufactured or supplied by it which is found to the satisfaction of TCM to be defective in material or workmanship. During this period TCM reserves the right at its option to replace the defective component or part with either a new or rebuilt component or part. During this period TCM will not assume any responsibility for the repair or replacement of engine accessories, i.e. parts which have been purchased by TCM from a manufacturer as a complete and finished unit and included in the assembly of an engine without aliering the unit, including, but not limited to, Unison® magnetos and hamesses, Precision Aimmotive Corporation® carburetors and fuel controls, Electrosystems® starters and alternators and Alledsignal® and Consolidated Fuel Systems® turbochargers. During this period accessories will be subject to such warranty coverage as may be provided by their manufacturer.
    - (b) In the event that TCM elects to repair in the field, rather than replace, any component or part under paragraph 2(a) of this warranty, TCM will pay labor costs for the repair of the component or part only. The amount of repair labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30552, published by TCM. TCM will not assume any responsibility for labor costs for the contract of the contract of the costs.

- (c) TCM will not assume any responsibility for transportation costs associated with repairs or replacements under paragraph 2(a) of this warranty.
- 3. The coverage under this warranty applicable to cylinder assemblies and related parts shall be subject to the terms, conditions and limitations set forth in the applicable TCM TopCare<sup>SM</sup> Cylinder Warranty.
- 4. Repair or replacement of any engine or part under this warranty will not extend the period of warranty coverage set forth above.
- 5. This warranty applies only to engines in which parts manufactured or supplied by TCM or parts manufactured pursuant to an FAA Parts Manufacturer-Approval have been used and nothing contained herein should be construed as a warranty by TCM of any engine or part not manufactured or supplied by TCM. TCM accepts no responsibility for the fallure of any engine or part which it does not manufacture or supply or damage resulting from such fallure.
- 6. This warranty applies only to engines which have been installed, inspected and maintained in accordance with the instructions for continued airworthiness, including compliance with all applicable service bulletins issued by TCM, the aircraft manufacturer or any accessory or component manufacturer. Performance of recommended inspections and maintenance must be documented by appropriate logbook entries and the logbook must accompany any engine being returned for warranty consideration.
- 7. This warranty does not apply to any engine, component or part manufactured or supplied by TCM which (1) has been subject to misuse, neglect or accident; (2) has been installed, repaired, maintained or altered in any way that in the judgment of TCM has adversely affected the condition of the engine; (3) has been operated inconsistent with TCM and aircraft manufacturer recommendations and limitations (such as, but not limited to engine RPM, temperature, manifold pressure, fuel flow and proper system adjustment) or (4) has been changed from its original FAA certificated configuration.
- B. TCM will not be responsible for repair or replacement of any engine, component or part damaged or wom as a result of corresion, pre-ignition/detonation, operation with non-calibrated engine gauges, improper fuel system adjustment, non-TCM approved fuel and oil grades or additives or installation of parts, components or accessories that alter the engine's original type design.
- 9. The provisions of this warranty do not apply to normal maintenance service (such as engine tune-ups, adjustments, inspections, engine or component overhaul resulting from time between overhaul (TBO) recommendations, etc.) or to the replacement of normal service items (such as spark plugs, filters, hoses, belts, etc.).
- 10. TCM reserves the right to change any engine or part specifications or prices without incuming any responsibility with regard to engines or parts previously sold or replaced.
- 11. THIS WARRANTY IS A WARRANTY TO REPAIR OR REPLACE AND NOT A WARRANTY OF THE CONDITION OR FUTURE PERFORMANCE OF THE PRODUCTS WHICH IT COVERS. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, SPECIFICALLY, BUT WITHOUT LIMITATION, THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IN NO EVENT WILL TOM BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY DEFECT IN ANY ENGINE OR PART, ARISING OUT OF THE FAILURE OF ANY ENGINE OR PART TO OPERATE PROPERLY, OR ARISING OUT OF ANY BREACH OF THE WARRANTY MADE HEREIN. No person is authorized to give any other warranty or to assume any additional obligation or liability on behalf of TCM.



# Hartzell Propeller Inc. Product Warranty

As to each new and unused product manufactured by Seller and sold to Purchaser hereunder, Seller warrants such product to be free from defects in material and workmanship in normal use and service for the first ONE THOUSAND (1000) OPERATING HOURS OF USE OR PERIOD OF ONE (1) YEAR FROM THE DATE FIRST PLACED IN SERVICE, WHICHEVER FIRST OCCURS. As to products or components parts thereof manufactured or supplied by others, Seller extends to Purchaser the applicable product warranty, if any, extended by such manufactured or supplier to customers of Seller. Used and reconditioned Products are sold AS IS and WITH ALL FAULTS and without any warranties express or implied of any kind or nature.

The provisions of the warranty set forth in the preceding paragraph will not apply to any product which is used for a purpose for which it is not designed, which is altered in any way, or which is subjected to misuse, negligence, accident, or neglect, so as, in the judgment of Seller, to affect adversely the condition of value of such product. Except as expressly provided in the preceding paragraph, all guarantees, warrantees, conditions, and representations, either express or implied, whether axising under any statute, common law, commercial usage, or otherwise, INCLUDING HMPLIED WARRANTIES OF MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, are hereby EXCLUDED.

Seller will have no obligation to Purchaser under this warranty unless and until Purchaser has returned the product to Seller within the time limits specified above, transportation and handling charges prepaid, and provided Seller with a written statement describing the alleged defect. Upon Purchaser's return of the product alleged to be defective. Seller will inspect the same and advise Purchaser whether or not Seller agrees that the product is defective. If Seller agrees, Seller will either repair and redeliver the original product, deliver a replacement product, or issue a credit to Purchaser. Seller's entire obligation under such warranty will be fully discharged by such repair, replacement, or issuence. If Seller does not agree that the product is defective or otherwise determines that the product is not covered by above warranty, then Seller will return the product to Purchaser, as is, transportation and handling charges collect.

THE WARRANTIES IN THIS CLAUSE ARE GIVEN AND ACCEPTED IN LIEU OF ANY OTHER WARRANTIES, REMEDIES, RIGHTS OR CLAIMS RESPECTING CONSEQUENTIAL, INCIDENTAL, SPECIAL, DIRECT, INDIRECT, TORT, CONTRACT OR ANY OTHER DAMAGES, WHETHER OR NOT ARISING FROM ANY CLAUSE OR ACTION OF ANY TYPE INCLUDING, WITHOUT LIMITATION, ANY DAMAGES ARISING FROM SELLER'S NEGLIGENCE, ACTUAL OR IMPLIED. Purchaser shall indemnify Saller for any claims which arise in the event of the failure of Purchaser or others down the contractual chain, to limit in accordance with this clause, Seller's liability and obligations.



# CONTINENTAL MOTORS NEW ENGINE WARRANTY

Each new aircraft engine shipped from Teledyne Continental Motors' plant on or after August 1, 1999 is warranted as follows:

- 1. (a) For a period of twelve (12) months or one thousand (1000) hours of operation, whichever occurs first, after the warranty activation date Teledyne Continental Motors (TCM) will at its option repair or replace on an exchange basis any engine, component or part manufactured or supplied by it which within the applicable twelve (12) month or one thousand (1000) hour period is returned to a TCM representative authorized to handle the engine covered by this warranty and which upon examination is found to the satisfaction of TCM to be defective in material or workmanship. The warranty activation date is the date the engine is first operated for any use or the 180th day after TCM's invoice date, whichever occurs first.
  - (b) TCM will pay for reasonable labor costs associated with repairs or replacements under paragraph 1(a) of this warranty and for "troubleshooting" costs associated with identifying the need for such repairs or replacements, when coordinated through an authorized TCM representative. The amount of repair and replacement labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30552, published by TCM. The amount of "troubleshooting" costs allowed will be the reasonable costs under the circumstances of identifying the need for such repairs or replacements, but in no event will the "troubleshooting" costs allowed exceed fifteen percent (15%) of the labor costs associated with such repairs or replacements allowed by TCM. No "troubleshooting" cost allowance will be made where the need for repairs or replacements is identified in the course of overhaul, routine maintenance or on the basis of an obvious defect.
  - (c) TCM will pay transportation costs in connection with the repair or replacement of any engine, component or part found to the satisfaction of TCM to be defective in material or workmanship under paragraph 1(a) of this warranty. The engine, component or part must be shipped prepaid to the repair facility designated by TCM. Transportation cost reimbursement for engines will be the actual surface freight charge or \$500.00, whichever is less. Engines must be described on the bill of lading as follows: "Internal combustion engine, other than Radial Cyl RVNX \$5.00". Transportation cost reimbursement for components or parts will be the actual surface freight charge for shipment of the component or part or the currently published UPS surface rate schedule, whichever is less.
- 2. (a) After the expiration of the applicable twelve (12) month period described above and before the expiration of an additional twenty-four (24) month period or expiration of one thousand (1000) hours of operation, whichever occurs first, TCM will, except as excluded below, at its option repair or replace on an exchange basis any component or part manufactured or supplied by it which is found to the satisfaction of TCM to be defective in material or workmanship. During this period TCM reserves the right at its option to replace the defective component or part with either a new or rebuilt component or part. During this period TCM will not assume any responsibility for the repair or replacement of engine accessories, i.e. parts which have been purchased by TCM from a manufacturer as a complete and finished unit and included in the assembly of an engine without altering the unit, including, but not limited to, Unison® magnetos and harnesses, Precision Airmotive Corporation® carburetors and fuel controls, Electrosystems® starters and alternators and subject to such warranty coverage as may be provided by their manufacturer.
  - (b) In the event that TCM elects to repair in the field, rather than replace, any component or part under paragraph 2(a) of this warranty, TCM will pay labor costs for the repair of the component or part only. The amount of repair labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30552, published by TCM. TCM will not assume any responsibility for labor costs for the removal and / or re-installation of the component or part, costs associated with "troubleshooting" or any other labor costs associated with repairs or replacements under paragraph 2(a) of this warranty.

- (c) TCM will not assume any responsibility for transportation costs associated with repairs or replacements under paragraph 2(a) of this warranty.
- The coverage under this warranty applicable to cylinder assemblies and related parts shall be subject to the terms, conditions and limitations set forth in the applicable TCM TopCare<sup>SM</sup> Cylinder Warranty.
- 4. Repair or replacement of any engine or part under this warranty will not extend the period of warranty coverage set forth above.
- 5. This warranty applies only to engines in which parts manufactured or supplied by TCM or parts manufactured pursuant to an FAA Parts Manufacturer Approval have been used and nothing contained herein should be construed as a warranty by TCM of any engine or part not manufactured or supplied by TCM. TCM accepts no responsibility for the failure of any engine or part which it does not manufacture or supply or damage resulting from such failure.
- 6. This warranty applies only to engines which have been installed, inspected and maintained in accordance with the instructions for continued airworthiness, including compliance with all applicable service bulletins issued by TCM, the aircraft manufacturer or any accessory or component manufacturer. Performance of recommended inspections and maintenance must be documented by appropriate logbook entries and the logbook must accompany any engine being returned for warranty consideration.
- 7. This warranty does not apply to any engine, component or part manufactured or supplied by TCM which (1) has been subject to misuse, neglect or accident; (2) has been installed, repaired, maintained or altered in any way that in the judgment of TCM has adversely affected the condition of the engine; (3) has been operated inconsistent with TCM and aircraft manufacturer recommendations and limitations (such as, but not limited to engine RPM, temperature, manifold pressure, fuel flow and proper system adjustment) or (4) has been changed from its original FAA certificated configuration.
- 8. TCM will not be responsible for repair or replacement of any engine, component or part damaged or worn as a result of corrosion, pre-ignition/detonation, operation with non-calibrated engine gauges, improper fuel system adjustment, non-TCM approved fuel and oil grades or additives or installation of parts, components or accessories that alter the engine's original type design.
- The provisions of this warranty do not apply to normal maintenance service (such as engine tune-ups, adjustments, inspections, engine or component overhaul resulting from time between overhaul (TBO) recommendations, etc.) or to the replacement of normal service items (such as spark plugs, filters, hoses, belts, etc.).
- 10. TCM reserves the right to change any engine or part specifications or prices without incurring any responsibility with regard to engines or parts previously sold or replaced.
- 11. THIS WARRANTY IS A WARRANTY TO REPAIR OR REPLACE AND NOT A WARRANTY OF THE CONDITION OR FUTURE PERFORMANCE OF THE PRODUCTS WHICH IT COVERS. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, SPECIFICALLY, BUT WITHOUT LIMITATION, THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL TCM BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY DEFECT IN ANY ENGINE OR PART, ARISING OUT OF THE FAILURE OF ANY ENGINE OR PART TO OPERATE PROPERLY, OR ARISING OUT OF ANY BREACH OF THE WARRANTY MADE HEREIN. No person is authorized to give any other warranty or to assume any additional obligation or liability on behalf of TCM.



TCM Engine Model	10-360	ES6B	Teledyne	Contin	ental N	lotors	Mag Data	Required	Actual
TCM Serial#	3574						Eng Speed Both	2100	2099
Test Document	TH-3209	-	Aircraft En	gine Stand	ard Acce	eptance	Eng Speed Right	N/A	2011
Software Release#	1.95, 08	/08/02		Test Lo	9		Right Mag Drop	150	88
Start Time	8/22/02, 1	4:41:20	vastinamente Maildik	December of the Control of the Contr			Eng Speed Left	N/A	2002
Accepted Time	8/23/02, 0	7:39:56		<b>的</b> 们在这样。2012	Club#	A395	Left Mag Drop	150	97
Cell# & Operator	0 \$, 29		<b>经验证证明</b>	S. S. Control of the second	Pitch	17°±.5°	Mag Drop Spread	50	9
Sea Level Power	210 MP @ 2	- 33	ALTERNATION OF THE PARTY.	ASSESSED AND THE	al Pitch		Fuel Flow (Ref.)	45	40
Vapor Pressure	0.99 In	2	THE INTERIOR	5年十八二十十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	ure Check	PASS N/A	CHAUSTON ASO - PERSON		
Temp, Wet Baro	80.60 F, 30.	12 in HG			nator Check		Note: Magneto	check between	n Run 2 & 3
Run Information		Run 1	Run 2	Run 3	Run 4	Run	5 Run 6	Run 7	Run 8
Time Of Day		14:46:31	14:51:44	14:58:18	05:48:37	05:59:	9 06:13:43	06:28:48	07:10:30
Run Time Rqd (MM:SS)		05:00	05:00	05:00	10:00	10:00	05:00	15:00	15:00
Run Time		05:00	05:00	05:00	10:00	10:00	05:00	15:00	15:00
Prop Speed Rad (RPM)		1175-122	5 1575-1625	2425-2475	2826-2876	2581-26	06 575-625	2581-2606	2581-2606
Prop Speed		1196	1590	2444	2831	2597	580	2585	2597
danifold Press Rgd (InHg	()	N/A	N/A	N/A	26.1-29.1	N/A	21.0 MAX	N/A	N/A
Manifold Press		11.3	14.4	23.6	28.2	25.8	14.1	25.1	25.1
urbo Dis Press Rad (InH	g)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turbo Dis Press		29.1	29.2	29.2	29.1	29.0	28.9	29.1	29.1
uel Flow Rqd (lb/hr)		N/A	N/A	N/A	99.1-105.1	73.6-79	.6 N/A	N/A	N/A
Fuel Flow		13.4	21.2	60.7	101.1	75.9	7.4	69.9	68.3
ozzie Press Rad (PSID)		N/A	N/A	N/A	14.3-15.3	9.7-10	7 N/A	N/A	N/A
Nozzle Press		3.4	3.7	7.3	15.3	9.9	3.1	9.6	9.0
uel Pump Press Rad (PS	IG)	N/A	N/A	N/A	21.4-24.4	N/A	7.0-9.0	N/A	N/A
Fuel Pump Press		10.7	13.2	18.9	24.0	21.7	7.2	21.0	19.6
iel Temp Rqd (°F)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fuel Temp		85	87	90	87	90	86	85	85
mblent Temp Rqd (°F)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient Temp		85	86	87	81	81	81	81	81
g Inlet Oll Temp Rqd (°F	)	240 MAX	120-240	165-240	180-240	165-24	0 140-240	165-240	165-240
Eng Inlet Oil Temp		105	156	184	194	216	194	173	173
g Oll Press Rad (PSIG)		30.0 MIN	30.0 MIN	30.0 MIN	41.3-71.8	30.0 M	IN 19.2 MIN	30.0 MIN	30.0 MIN
Eng Oll Press		65.2	62.3	56.6	55.5	46.7	23.0	58.9	60.5
n Cylinder Temp Rad (°F	)	N/A	175 MIN	225 MIN	250 MIN	250 M	N N/A	250 MIN	250 MIN
x Cylinder Temp Rad (°F	•)	460 MAX	460 MAX	460 MAX	460 MAX	460 M	460 MAX	460 MAX	460 MAX
ylinder 1 Temp		207	287	356	360	373	276	346	346
ylinder 2 Temp		195	282	348	378	390	245	343	351
ylinder 3 Temp		232	261	326	340	363	285	317	319
ylinder 4 Temp		176	280	342	359	386	239	340	343
ylinder 5 Temp		190	232	302	323	338	236	305	308
ylinder 6 Temp		172	242	313	326	346	211	307	310
ar Press Differential Rqd	(PSID)	N/A	N/A	N/A	29.9 MIN	N/A	N/A	· N/A	N/A
ollar Press Differential	,	62.3	59.4	51.5	44.8	34.9	17.4	49.3	51.0
ner riess Dillerentia)		72.0	37.7	31.3	77.0	34.7	17.7	77.3	31.0

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	P.O. Bo		ental Moto	IS F	C #508	P37795	
6. Item:	7. Description:			8. Part Number:		9. Eligibility:*	
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		1	User/Installer	Responsibilities			V)
It is important to unders	stand that the existence of	this document alone of	loes not automatically c	onstitute authority to install th	ne part/component	/assembly.	
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	and 19 do not constitute by the user/installer befo			maintenance records must co	ntain an installatio	on certificatio	in accordance with
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\*Installer must cross check eligibility with applicable technical data.

NSN-0052-00-012-9005

FAA Form 8130-3 (6-01)

TELEDYNE CONTINENTAL MOTORS AFTERMARKET PARTS - PACKING LIST 05/14/2003 15:44:12

\*\*DO NOT CONSOLIDATE\*\* PAGE

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TO: UNIVERSITY OF NORTH DAKOTA

TRACKING No.: P37795

DRESS:

MARK ANDREWS INT'L AIRPORT

SALES ORDER: 385136

GRAND FORKS, ND 58202

: 224435

DOMESTIC AOG NEXT DAY

BOX NUMBER

It is hereby certified that all materials or parts on this shipment are in conformance with the requirements, specifications, and/or drawings listed for the above purchase order number. If applicable, shelf life expiration dates are shown on the part package in an Alpha Code.

05/14/2003

Date Daniel L. Nicholas

DESCRIPTION QTY SHIPPED C

ORDERED PART NUMBER ITEM

R ADAPTER AS 1 1 646220A37

er for Aerospace Sciences
University of North Dakota
Grand Forks, North Dakota 58202

# PARTS \$

## **MATERIAL REQUISITION**

45/03 ACFT NO. NZ77ND W/O NO. 9000000 1027770

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John D. Odegard School

Grand Forks, ND 58202-9007

WKO#: Mech:

1028035 MSB

OBTAIN ALL

of Aerospace Sciences University of North Dakota

Box 9007 University Station

Shop Code: F

Equip Code: A

Model: SR20

INITIALS BEFORE FILING

Customer: UNDAF

Acct#: 9503-9903-471

Opened:

5/20/2003 7:02

Preliminary Insp

N#: N777ND AcftType: SR20

Bill Meter: 50.6

A/F Tach: 50.6

Init Mass

Part# **SR20** 

Serial# 1258

Description **AIRFRAME** 

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enter for Aerospace Sciences
University of North Dakota
Grand Forks, North Dakota 58202

# **MATERIAL REQUISITION**

-20-03 ACFT NO. N777ND WO NO. 1028035

. 4	МІ	Part Number	Serial Number	Description	Quan.	мсс	Return Y/N	Batch #
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		Regulati this age	ork identified above was performed in a on and was found to be airworthy for re ncy under,	accordance with the curre	iations not	ed.		13		- 704	
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Page 1 of \_\_\_\_\_\_

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c	OUTSIDE REPAIRS		MATERIAL/PARTS	
		LADOI	TAL LABOR 1	00
		I have reviewed the file on this aircraft and/or engine and the accompanying discrepancy forms. The aircraft, airframe,		

CS 501 Revision A

				Administration with respect found to be airworthy and is Certified Repair Station OG  Authorized Signature  Date	approved						
			-	found to be airworthy and is Certified Repair Station OG	approved				-		
Chan	ae 2)			I certify the aircraft airframe appliance identified above vaccordance with current reg	as repaired	d and ins	pected eral Avi	i ih avon			
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Page 1 of

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John D. Odegard School of Aerospace Sciences	WKO#. Mech:	KHP <u>INITIALS</u>				RE FILII	<u>vg</u>		89
University of North Dakota Box 9007 University Station Grand Forks, ND 58202-9007 Customer: UNDAF Acot#: 950	Shop Code: Equip Code: Opened: 03-9903-471		R/A 8			Date	closed	b/1	2/03
N# N777ND AcftType: SR20	Model: SR2		Bill Meter: 5			Tach:		Init_	KHF
Part#         Serial           SR20         1258           10-360-ES6B         35749           PHC-J3YF-1RF         FP180	98	Description AIRFRAME ENGINE (CIRRUS PROPELLER	3 SR20) TELEI	DYNE	С	<u>TSO</u> 57. 57.	8	57.8 57.8 57.8 57.8	
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I certify the aircraft airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration with respect to the work performed and found to be airworthy and is approved for return to service. Certified Repair Station 0G5R092N.

Authorized Signature

Date

Authorized Signature

John D. Odegard School         WKO#           of Acrospace Sciences         Mech:           University of North Dakota         Shop Co           Box 9007 University Station         Equip Co           Grand Forks, ND 58202-9007         Opened:           Customer: UNDAF         Acct#. 9503-9903-47           N#. N777ND         ActtType: SR20         Model: S           Part#         Serial#           SR20         1258           IO-380-ES8B         357498           PHC-J3YF-1RF         FP1868B	KDC (NIT)  ode: A  ode: F R/A (optil)  1 Preliminary Insp KHP	AIN ALL ALS BEFO In Progr	Date	58.4 2.4 .4	Init <b>/</b> tal <u>Time</u> 58.4	
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i certify the aircraft airframe, a appliance identified above wa accordance with current regul Administration with respect to found to be airworthy and is a	s repaired and lations of the F	inspected in ederal Aviation				7		
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Page 1 of \_\_\_(\_\_

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Odegard School of Aerospace Sci. WKO#.

Mech:

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OBTAIN ALL

University of North Dakota

CEC

INITIALS BEFORE FILING

9007 University Station Grand Forks, ND 58202

Shop Code: F Equip Code: A

Date closed: 2

USA

Repair Station# OG5R092N

Acct#: 9503-9903-471

9/1/2003 15:35

Preliminary Insp

In Progress Insp

Init Fee

Customer: UNDAF

N#: N777ND AoftType: SR20

Model: SR20

Opened:

Bill Meter: 93.9

A/F Tach: 93.9

Part#

Description

TSO

Total Time 96.5

SR20

Serial#

**AIRFRAME** 

96.5

10-360-ES6B

1258 357498

ENGINE (CIRRUS SR20) TELEDYNE C

96.5 96.5

96.5

96.5

PHC-J3YF-1RF

FP1868B

**PROPELLER** 

20	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs		Mech	Insp
/	U. I of IT loca	25/	1	This FIT was in a said in	25/60		9/11	1,0	8	Œ	Œ
	Yearly a ELT insp.	/30	1	This ELT was inspected in accord manufacturer's instruction of FAA found to meet the requirements of	notice A8	1 <b>50-3</b> a 07 (d).	nd				
	Aloc			ELT Model E-0 / EL	T S/N # 0	1260	28				
				ELT Test Date	9-1	3			T		
			-	Authorized Signature Certified Repair	r Station O	<b>65R09</b>	2N	-	$\dagger$		
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			T						†		
			$\dagger$			+		1	$\dagger$		+
		-		I certify the aircraft airframe, aircr appliance identified above was re	aft engine, p	ropelis	r, or		+		+
			t	Administration with respect to the found to be airworthy and is appro	work perfor	deral A	viation	+	†		$\dagger$
		7 2	1	Authorized Signature Date	ZN.	2					
				3 3	7-95				T		
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Uni 900	egard School of Aerospace Sci iversity of North Dakota 07 University Station and Forks, ND 58202	Med	h:	1030168 MSB ode: F	INITI	AIN AL ALS B	TT D S TO THE TO THE TO	RE FILII	<u>vg</u>	8	f
US	iA .			ode: A	R/A			D-4-		9/9/	03
	pair Station# OG5R092N	Ope			Parts (opti)			ess Insp	CIOSED	5//	
Cu	stomer: UNDAF Acct#: 95										
N#	: N777ND AoftType: SR20	Mod	lel:	SR20	Bill Meter: 9	3.9	. A/I	F Tach:	93.9	Init 🖊	1573
Pa				Description				TSC		otal Time	
SR	I S			AIRFRAME ENGINE (CIRRUS	CDON TELE	UANE	c	96. 96.		96.5 96.5	
	360-ES6B 35749 IC-J3YF-1RF FP18			PROPELLER	SRZUJ ICCC		C	96.		96.5	
_						<b></b>					
PD	Problem / Discrepancy (PD)			Corrective Action (CA)			ACC	Date	Hrs	OT Mech	Insp
<u>/</u>	100h-/ Annual Insp de	20	1	Inspected por 1001)	rlaunual	20	N	9-6	7.6	msB	KHP
			i i i	checklist				9-6	3.0	7555	KHP
					_			09/06	4.0	SM	KHP
	18		2	complete inspection.	ser vice AC	05	N	09/7	5.0	see	KHP
		4		complete inspection, begin closing				9/07.	5.0	DM	KHP
		1 200		,				9/7	4.0	MSB	KHP
			3	close A/C, lube	nse swivel	o≤ o≤	7	9-8	40	msn	KHP
	10		4	Complete 100hr Tu				9-9	1	msB	KHP
-	3	10 7 2	ru		- g ·	1900		Stages de la	gree to		
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	• 1				7			4		article o	
2	50 hr. insp. due	05	1	coupleted 50 hr 1	'usp.	05 20	N	9-6	1.0	MsB	KHP
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	INSPECT	ION SI	JPPLEMENT AND WORK ORDER		Page _	2_ of	_5		1	AD ST
(N) 777ND			Work Order #: 103 0168							000
Problem Description (PD)	GAMA	CA	Corrective Action (CA)		ACC	Date	Hrs	ОТ	Mech	Insp
AD2003-13-17 prop Lue	6400	1	NIA by prop SIN	00	N	9-7	.1		msB	KAP
dated 7-18-03		Najore								
	37		1	37		9 -	10		201	KAP
Vacuum press. low both pumps	20	/_		20	<i>/</i>	1-7	1,0		ver_	KHI
· · · · · · · · · · · · · · · · · · ·		2	Instell how some was at good	37 20	N	9-9	.2		MSB	RHP
EGT inco.	77 20			77 20	N			+	MSB	KHP
		- Astronom						,		
	77 20	2		20	N	9-9	•4	_	MSB	KHP
Cracked baffle front of bd	72 30	7 M	stop drilled crack.	72	N	9-7	01		msis	KHF
of oil cooler	,					-	-	-		
					_	_	-	+		
	AD2003-13-17 prop due daked 7-18-03 Vacuum press. low both pumps EGT, imp.	Problem Description (PD) GAMA  AD 2003 - 13-17 prop due 64 00  daked 7-18-03  Vacuum press. low both pumps 37 20  EGT, imp. 77 20 72	Problem Description (PD) GAMA CA  AD 2003 - 13-17 prop due  daked 7-18-03  Vacuum press. low both pumps 37 20 1  EGT, insp. 77 20 1  77 20 2  72 72 MB	Problem Description (PD)  GAMA CA Corrective Action (CA)  AD 2003 - 13-17 ping Jup 64 00   N/A by prop 5/20  daked 7-18-03  Vacuum press. [ow both pumps 37 20   Trouble shot sign team, found loss gauge inaccurate  2 Install new gage, ups ck good  EGT, inap.  77 20   Troubleshoot, find page inap.  order parts.	Work Order #: 1030168  Problem Description (PD) GAMA CA Corrective Action (CA) GAMA  AD 2003-13-17 prop due 64 00 1 N/A by prop SIN 00  dated 7-18-03  Vacuum pross. low both pumps 37 20 1 Tranble shot dos tons, found 20  Low gauge ineccurate 20  Install new gage, ups ck good 77 20 1 Tranbleshoot, find gage inap. 20  order parts.  77 20 2 Installed new EGT/CHTgage 20 72 72 73 74 75 77 76 77 77 78 78 78 78 79 70 70 71 71 72 72 73 74 75 77 77 70 70 71 71 72 72 73 74 74 75 77 77 70 70 71 71 72 72 73 74 74 75 77 77 70 70 71 71 72 72 73 74 74 75 77 77 70 70 71 71 72 72 73 74 74 75 76 77 77 77 78 78 78 79 70 70 70 71 71 72 72 73 74 74 75 77 76 77 77 78 78 78 78 79 70 70 70 70 70 71 71 72 72 73 74 74 75 76 77 77 78 78 78 78 78 78 78 78 78 78 78	Work Order #: 1030168  Problem Description (PD)  GAMA CA Corrective Action (CA)  GAMA ACC  AD 2003 - 13-17 ping due  OH 00 1 N/A by prep 5/N  dated 7-18-03  Vacuum press. low both pumps 37 20 1 Tomble shot gastens, found 20 N  Install new gase, upsck good 37 20 N  EGT, ingp.  77 20 1 Tranbleshoot, find gage inap. 77 20 N  ovder parts.	Nork Order #: 1030168   Problem Description (PD)   GAMA   CA   Corrective Action (CA)   GAMA   ACC   Date	N	N   777ND   Work Order #: 1030168   Problem Description (PD)   GAMA   CA   Corrective Action (CA)   GAMA   ACC   Date   Hrs   OT	N   777ND   Work Order #: 1030168

		INSPECTI	ON S	UPPLEMENT AND WORK ORDER		Page _	<i>3</i> of	5			1
Reg#:	(N) 777ND			Work Order #: 1030168							
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
7	oil leak # 6 intake Rocker	72 30	1.	tightened rocker cover school	72	N	9-7	el		ms B	KAP
	love										
8	tach generater wines chafing	77 10	1	secured wing with silican	77	N	9-7	.2		msB	MP
	an altundar			A				_			
					-						
9	abin heat short at hot	21 40	1	adjusted cable to obtain	21	N	9-7	.3		msB	KHP
				full travel	ļ	_	-	-	-	-	
		27	_		27 10	N	9-7	.2	-	MSB	KHF
10	Leff + right ailan not reaching	10	-				19.7	102	+	Tripie	K//
	up stops.			with Circus Maint, Manual,	+			$\dagger$	+	3	
					-	+	$\dagger$	+	$\dagger$		
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		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page	4_0	f_5	-	-	
Reg#:	(N) 777 ND			Work Order #: 103 0168							
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
11	Othe aitera lings insp. due	04 00	1	Inspected per 5 & 2X-57-04	04 00	N	9-7	1.5		MSB	KHP
	Jatel 4-3-03			found to be in compliance							
	Fig. 55.			,							
12	TC/Roll conjula batteriesday	24 00	1	Installed replacement butterio	24/	N	9-7	.5		MSB	KAP
	,	The second second		defed May 2007, next replace	nut						
				due 9-2004							
13	Fuel somp o-ring assy washer	28 00	1	Installed new oring assy	28	N	9-9	.1		MSB	KHP
	tarn			leak check good							
				,							
14	garder inst. Eitter due.	37 10	/	Proplaced garder Fitter	37 10	N	%	.2		Œ	KHF
	V			Replaced garder fitter Next de 9-30-04-00				rein To per	y .		A .
				193,9 Tach							25,000

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	INSPECT	ON S	UPPLEMENT AND WORK ORDER		Page	5 0	1_5	-	and the same	
leg#: (N) <u> </u>			Work Order #: 103 6168						- 35	File Par
PD Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA				ОТ	Mech	Insp
5 inspector time	05/60	1	inspected	05/60	2	9/9	1.5			KH
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	1	İ		Administration to be Certified F	e with du	respect to	the work	oerforme for return	ral Aviation ed and to service.	
				Authorize		Λ.		50	torse	_
				J410	7	707	1			

PARTS'S

# Center for Aerospace Sciences University of North Dakota Grand Forks, North Dakota 58202

#### **MATERIAL REQUISITION**

JO .	МІ	Part Number	Serial Number	Description	Quan.	мсс	Return Y/N	Batch #
M	M5B	Ch48108		Filter	J			1947
1	/_	M\$ 35769-11		casket	2			1655
		M\$ 35769-21		Casket	1			2548
1 2ry		M-674		Spark gasket 90 Bakkry feller	12			62564
	MSB	060160		90 Bakey	3			_
	msB	B3-S-1 12648-601		faller	1			2191
VI	1		# /	govel	1			2703
15	$\dashv$	12616-001	¥ 304	gange	1			2760
	$\perp$	50803-001	#	Wall Nat	13			2763
$-\frac{1}{2}$	$\mathcal{A}$	50803-001 50802-001 NAS15-23-8B	4	younge Well- Nate Well- hat	义士			2703
1/3	44	NH515-23-8B	#	seal				7763
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Odegard School of Aerospace Sci University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N Customer: UNDAF Acct#: 95	Med Sho Equ Ope 03-990 Mod	ch: op Co sip C ened:	JEB <u>(N/)</u> ode: F ode: A R/A 12/2/2003 7:47 Parts (op	in I	Progre	Date ess Insp.	closed		12/2/	/03 /03
SR20 1258			AIRFRAME			106.	0	1	0.80	
10-360-ES6B 3574	98		ENGINE (CIRRUS SR20) TEL	EDYNE	C	106.	0	1	0.80	
PHC-J3YF-1RF FP18	688		PROPELLER			106.		1	0.801	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	97	Mech	Insp
1 A/C battery	24 30	ı	Removed batt,	2 Y 30	N	12	25			JES
dead.			Removed batt, charged + reinst	alla	1.	10		Ц		
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		14	l ce app	ortily the a	ircraft a	officime, a above was	craft er	gine d an	, propelle d inspecte	, or d in
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Page 1 of \_\_\_\_

GMGR	degard Schoniversity of I irand Forks I lark Andrews irand Forks, depair Station	North Dako Intl. Airport 5 Field ND 58202 # OG5R09	ta	Med Sho Equ Ope	p Co ip C ened:		R/A	1 2	FOF	Date	closed		3+4-	04
N	#: N777ND	AoftType:	SR20	Мос	lel:	SR20	Bill Meter: 1	03.4	A/F	Tach:	103.4		Init <u>/</u> /	1583
S	art# R20 )-360-ES6B HC-J3YF-16	XF	<u>Seria</u> 1258 35740 FP18	98		Description AIRFRAME ENGINE (CIRRUS PROPELLER	S SR20) TELE	DYNE	С	TSO 106. 106. 106.	0	1	Time 06.0 06.0 06.0	
PE	Problem /	Discrepan	cy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	7	Mech	Insp
1	Aircraft	require	٠,	25	1	Installed nevision A	Al in	25	N	3.4	.3	Ц	ms	MKB
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							I certify the aircr appliance identi accordance with	ed abov	was	repaired a	nd inspe	cte	in	
							Administration v found to be airw Certified Repair	orthy an	is ap	e work pe roved for	rformed	and		
1							Authorized Sign	ature /				$\parallel$		_
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Page 1 of

Page 1 of \_

Odegard School of Aerospace Sci.

University of North Dakota

Grand Forks Intl. Airport

N#: N777ND AcftType: SR20

WKO#: Mech:

1036311 MRS

<u>OBTAIN ALL</u> INITIALS BEFORE FILING

Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N

Shop Code: F Equip Code: A

Model: SR20

Opened: 5/17/2004 17:00 Parts (optl)

Date closed:

Customer: UNDAF

Acct#: 9503-9903-471

Preliminary Insp

In Progress Insp

Part#

**Description** 

Bill Meter: 103.4 A/F Tach: 103.4

> **TSO Total Time**

**SR20** 

Serial#

1258

**AIRFRAME** 

106.0

106.0

IO-360-ES6B PHC-J3YF-1RF

357498 FP1868B ENGINE (CIRRUS SR20) TELEDYNE ( **PROPELLER** 

106.0 106.0 106.0 106.0

	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	57	Mech	
=	Problem / Discrepancy (PD)	1717	CA	Corrective Action (CA)		ACC	/	nrs		Mech	Insp
4	Battery need	24-00	1	Removed battery + charges	24	N	5/11	0,4		JSS	M
4	recharge		2	Removed battery & charges Reinstalled battery	,	N	5/17	.4		POH	ge
4											
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				I certify the alternit airframe circraft engine appliance identified above was repaired an	dinspec	ted in					
				accordance with current regulations of the Administration with respect to the work per found to be airworthy and is approved for re Certified Repair Station OG5R092N.	formed a	nd					
$\perp$				Authorized Signature	1						
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					13-21 <sup>17</sup>	134					
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U G	degard School of Aerospace Soniversity of North Dakota rand Forks Intl. Airport	Me	(O#: ch: op C	ode:	103631 MRS W	0		<u>OBT/</u> <u>INITI</u>	AIN AL ALS B	<u>L</u> EFOF	RE FILIN	<u>G</u>			8p
G	ark Andrews Field rand Forks, ND 58202	Eq	uip C	ode:	Α		R/A		44	+				5-17	- 1CI
	epair Station# OG5R092N	-	enec			04 17:00		s (opti)					d: _	- 1 /	-07
C =	ustomer: UNDAF Acct#: 95	503-990	03-4	71 	Pı	reliminary	Insp	_	In P	rogre	ss Insp _				
N	#: N777ND AcftType: SR20	Mo	del:	SR2	0		Bill M	eter: 1	03.4	A/I	F Tach:	103.4		Init <u>0</u>	MT
	art# Seria				Descr						TSO			<u>l Time</u>	
	R20 1258				AIRFF		LIC CDOO	N TELI	EDVNE	.,	106.			06.0	
	-360-ES6B 3574 HC-J3YF-1RF FP18					NE (CIRR PELLER	US SH20	) IELI	EDYNE	. (	106. 106.			06.0	
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PD	Problem / Discrepancy (PD)	ATA	CA			Action (CA			ATA	ACC	Date	Hrs	рΤ	Mech	Insp
<u></u>	Aircraft requires	1230	)	C I	eoned	air avired	craft		12:20	V	5-17-04	1.0		OMT	
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	INSP	ECTIO	N SUPPL	EMENT A	ND WORK O	RDER			Pa	age 1 o	f <u> </u>
Odegard School of Aerospace Sci University of North Dakota Grand Forks Intl. Airport Mark Andrews Field	Mech: Shop	Code:				AIN AL ALS B		RE FILIM	VG		Sp
Grand Forks, ND 58202 Repair Station# OG5R092N	Opene	Code: ed:	5/17/200	4 17:00	Parts (opti)	57	w/	Date	close	d: <u>5</u> -	17-04
Customer: UNDAF Acct#: 95	03-9903-	471	Pre	liminary In	sp <u>—</u>	In P	rogre	ss Insp _			
N#: N777ND AcftType: SR20	Model	l: SR2	0		Bill Meter: 1	03.4	A/I	Tach:	103.4	In	it OM T
Part#         Serial           SR20         1258           IO-360-ES6B         35749           PHC-J3YF-1RF         FP18	98		Descrip AIRFRA ENGINI PROPE	AME E (CIRRUS	S SR20) TELI	<b>.</b>	1	TSC 106. 106. 106.	0 0 0	106.0 106.0 106.0	0
PD Problem / Discrepancy (PD)	ATA C	_	rrective A		<u> </u>	ATA	_		Hrs	OT Me	
1 Aircraft requires	12201	1	leoned		raft	12.20	V	5-17-04	/.0	מנט	7
1 Aircraft requires wash job		a	s reb	hvired							
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		LNS	SPE	CTION SUPPLEMENT A	ND WORK O	RDER			P	age 1 of	7			
Un Gr Ma Gr	egard School of Aerospace Sci iversity of North Dakota and Forks Intl. Airport ark Andrews Field and Forks, ND 58202 apair Station# OG5R092N	Med Sho	h: p Co ip C	1036507 RDR ode: W ode: A 5/24/2004 20:51		Ap.		RE FILII		d: <u>5-2</u>	8p 4-04			
	stomer: UNDAF Acct#: 95				**************************************		Progr	ess Insp		и				
== N#	k N777ND AcftType: SR20	Mod	lel:	SR20	Bill Meter: 1	30.9	A	F Tach:	124.7	Init	ROR			
SF	Seria 220 1258 -360-ES6B 35749 HC-J3YF-1RF FP18	98	· ·	Description         TSO           AIRFRAME         127.3           ENGINE (CIRRUS SR20) TELEDYNE C         127.3           PROPELLER         127.3							Total Time 127.3 127.3 127.3			
PC		ATA	CA	Corrective Action (CA)			ACC	===		OT Mech	Insp			
1	AlcRequia, Wash	12	1	Alc washed as	egrine d	17	N	2-34-04	·s-	LA	1_			
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Odegard School of Aerospace Sci.

WKO#:

1039174

OBTAIN ALL

University of North Dakota Grand Forks Intl. Airport

BSS

INITIALS BEFORE FILING

Mark Andrews Field Grand Forks, ND 58202

Shop Code: A Equip Code: A

Model: SR20

Repair Station# OG5R092N

Opened:

Mech:

9/24/2004 18:55

Parts (opti)

Bill Meter: 272.2

Date closed: 9/24

Customer: EASE

Acct#: 9999-0000-471

Preliminary Insp

In Progress Insp

A/F Tach: 272.2

Init <u>RSS</u>

N# N777ND AcftType: SR20 TSO **Total Time** Description Serial# Part# 274.8 274.8 **AIRFRAME** 1258 SR20 274.8 ENGINE (CIRRUS SR20) TELEDYNE C 274.8 357498 10-360-ES6B 274.8 274.8 PROPELLER FP1969B PHC-J3YF-1RF

P	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	7	Mech	Insp
	EASI would not	34/	١	Went into mx pages	34/ 40	2	9/24	1.5		Bss	del
_	Show proper heading			of EHSI and re-set			2		$\perp$		
_	or and Now Hog			heading and now values			26	_	1		
	سور کے دادیں۔	-		EHSI ops checks					$\downarrow$		
				good.					1		
		4.	143		26						
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+		ap	plian	the aircraft airframe, aircraft engine, propeller, ce identified above was repaired and inspected not with current regulations of the Federal Av	d in viation	1			1		
1		Ad	minis	be airworthy and is approved for return to set Repair Station OG5R092N.	d						
		Au Da		and Signature	Ī						
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4		$\vdash$	$\vdash$		+	+	+-	+		$\vdash$	+

_		IN	SPE	CTION SUPPLEMENT AND WORK	ORDER			Pa	ge 1 of _	
Un Gr	degard School of Aerospace Sci niversity of North Dakota and Forks Intl. Airport	Med		200 P-0 (200 P-0 (200 P-0 P-0 P-0 P-0 P-0 P-0 P-0 P-0 P-0 P	TAIN AI TIALS E		RE FILI	<u>NG</u>	- '	βp
Gr	ark Andrews Field and Forks, ND 58202 epair Station# OG5R092N		ip C ened:	ode: A R/A 9/25/2004 11:07 Parts (op	#) JI	10	Dat	e closed	ı: <u>9-</u> 2	8.0
Cu	stomer: EASE Accl#: 99	88-000	0-47	1 Preliminary Inst	In	Progre	ess Insp			
NA	N777ND AoftType: SR20	Mod	del:	SR20 Bill Meter:	277.4	A	Taoh:	277.4	Init_B	355
	<u>rt# Serial</u> 220 1258	#		<u>Description</u> AIRFRAME			<u>TSC</u> 280	-	otal Time 280.0	
	-360-ES6B 35749	98		ENGINE (CIRRUS SR20) TEL	.EDYNE	C	280		280.0	
PH	IC-J3YF-1RF FP18	698		PROPELLER			280	.0	280.0	
PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT Mech	Insp
1	HSI randomly switched	34/40	1	Ran A/c on ground. Wite	34/	N	9/25	20	355	B
4	Fram 330-030 on		3 1/4	precession of HSI. Rem	aved	Police of the second		8		
					79.40	* 1 2		3	5.6	
	upwid.		1000	remote DG.	60 64 64 64 64 64 64		4 11pm		aggreens, du	
	upwind.		z		STATE STATE	N	9/28	.5	DHT	E
PIN	4305-150		Z		4 .53	N 24	9/28	.5	DHT	E
- PAN	4305-150		2	Installed overhauled remote Gyro 4SIN \$7	2119	24	9/28	5	DHT	E
PM W				Trisfelled Overhauled  Yemore Gyro 4510 47  I certify the aircraft airframe, aircraft engiappliance identified above was repaired accordance with current regulations of the	2 1/9	ler, or		5	DHT	
PM W	4305-150			Trisfelled overhoused  Yemote Gyro 4SIN 97  I certify the aircraft aircraft engined appliance identified above was renaired.	2 1/9	ler, or		5	DHT	

							Judit Starks, 5
	ving National Aviation	2. AUTHORIZ	ED RELEA	ASE CERT	IFICATE		acking Numb
	VUNITED STATES	FAA Form 813	0-3, AIRWORT	THINESS APPR	OVAL TAG	WRK0	034822
4. Organ	nization Name and Address		NENT INSTRUM ST. NORTH S 67226	•		Number:	order/Contract/Invoice
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	FAA CRS OL2	11. Serial/Batch	1.00.00	12. Status/Work:
1	REMOTE GYRO	4305-150 4305	N/A	1	07211924		OVERHAULED
ALL WO	ORK ORDER REFERE ORK WAS PERFORME specified in block 12/13 except	NCED DESCRIBES THE ED I.A.W MANUAL # as otherwise specified was carrie under JAA Acceptance Certifica	MCI SPEC.	. 4305, REV. G e with JAR 145 and i	a, 1/2/02.	the aircraft co	omponent
	A	e were manufactured in conform te in condition for safe operation pecified in Block 13.	on. Ce and Fe	d described in Block	nerwise specified in bi	lock 13, the w	vork identified in Block 12 ce with Title 14, Code of the items are approved for
15. Author	rized Signature:	16. Approval/Authorization	on No.: 20	. Authorized Signat	ure	2	1. Approval/Certificate No.: FAA CRS OL2R061L
17. Name	(Typed or Printed):	18. Date (m/d/y):	2 /22	. Name (Typed or P	rinted):	2	3. Date (m/d/y):
/		, , , , , , , , , , , , , , , , , , , ,		ROBIN FREEMA	N		5/3/2004
Where the authority of from the air	user/installer performs work f the country specified in Blo rworthiness authority of the in Blocks 14 and 19 do not	Use vistance of this document alone in accordance with the nation ock 1, it is essential that the use country specified in Block 1.  constitute installation certificathe national regulations by the	e does not autom al regulations of er/installer ensure ation. In all cases	an airworthiness a s that his/her airwo , aircraft maintena	uthority different that orthiness accepts pa nce records must co	n the airwork arts/compone	thiness ents/assemblies
	B130-3 (6-01)	*Installer must cross-c			dual to the land	1	NSN: 0052-00-012-9005



### MID-CONTINENT INSTRUMENTS CO., INC.

9400 E 34TH ST. NORTH WICHITA, KS 67226 FAA CRS OL2R061L

#### WRK0034822

4/13/2004

Page:

		Fina	al Work Orde	er	
Nomenclature REMOTE GYRO		Serial No 07211924	Location KS	RMA #	
Manufacturer's Part No. 4305-150		Model No. 4305	Ì	Quantity 1	
Manufacturer GENERAL DE				Service Period	
129			1		
CR TO BE ISSUED AFT CUST CALLED 03/05/04 COME OVER & EXCH O 3/5/04 EMAILED FOR O	RO INVALID, GYRO IS IN ER CORE EVAL & WTY 4 & SAID HE IS STILL WA DUT HIS UNIT HE WILL B ORE RETURN REMINDE	S VERIFIED FEI ITING ON HIS CI E RETURNING T R	JST. HE SAID AS SOON HE WARRANTY UNIT. J	AS THE CUSTOMER CAN	
Work Instructions  Warranty Repair  Functional Test	_OverhaulX _Return _RepairModifi	As Is	Special Instructions		
Preliminary Inspection Seals Broken No Nameplate Damaged	Cover Damaged		Hidden Damage Inspection	n Required No	
Preliminary Inspector R	OBIN FREEMAN			Date	4/13/2004
Failure Analysis	and the same of th				-
NEEDS MOD 3					
	4				
Previous Service Bulletin	s Installed: MOD 1		-		
NECESSARY USING INSPECTED IN ACCO SPECIFICATIONS. U INSTALLED MOD 3. C CLEANED BRUSHES RAN A TEST DATA S	AND OUR DINICE LURD	MBLED AND CTURERS ON - WAS OK BU ICATED SLIP RI THE ELECTRICA	AL SETTINGS AND MECH	RUSHES TO BRING BACK IN FOR ANY PROBLEMS - NONI IANICAL CALIBRATION ARE	- 1 00
I.A.W Manual # MCI Outgoing Service Bullet	SPEC. 4305, REV. G, 1	/2/02.			the sale of the sale of
Technician	TONY NEWPORT			Date	4/15/2004
In-Process Inspector	DUONG NGUYEN		<b>1</b>	Date	4/15/2004
FINAL INSPECTOR	ROBIN FREEMAN	Nema	14	Date	5/3/2004
Parts Used	20	Part Descrin	ation		Quantity

Part Description

**LUG & CABLE** 

Part Number

9011651-10

Center for Aerospace Sciences
University of North Dakota
Grand Forks, North Dakota 58202

**Part Number** 

PARTS \$

FE 9/29/04 \_\_\_ACFT NO. \_\_\_N 777 NO \_\_\_WO NO. \_\_<del>/039||US</del>

_			Seriai Number	Description	Quan.	MCC	Return Y/N	Batch #
	744	4305-150	07211924	9416				1015084
					++		/	7012-57
							7.	
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	1				Ĭ	1	ı	1

Odegard School of Aerospace Sci. WKO#:

University of North Dakota Grand Forks Intl. Airport

Mark Andrews Field

Grand Forks, ND 58202 Repair Station# OG5R092N Mech:

BSS Shop Code: A

Equip Code: A

Opened:

9/28/2004 13:14

1039281

OBTAIN ALL

INITIALS BEFORE FILING

Customer: EASE

Acct#. 9999-0000-471

Preliminary Insp <u>M/</u>

In Progress Insp MHS

Part#

N#: N777ND AcftType: SR20

Model: SR20

Description

Bill Meter: 277.4

A/F Tach: 277.4 TSO

Total Time

**SR20** 

Serial# 1258

AIRFRAME

ENGINE (CIRRUS SR20) TELEDYNE C

280.0 280.0 280.0

10-360-ES6B PHC-J3YF-1RF 357498 FP1868B

**PROPELLER** 

280.0

280.0 280.0

ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DΤ	Mech	Insp
34/10	-	Found leak at autoplit	34/	N	9/28	2.5		Bss	mst
		autopilot transducer.							
		Tightened fitting.			42.			2	
I cert Part	fy t 91-	nat Altimeter and Static Systems	tests re	quire	d by			3 3	
Stati	S	stem Test Date 9/38/64		3.	_				
Altim	eter				feet			A street	
Left	Altir	letel 1491 Date	-	-	-			-	I
Right	Alt	meter Test Date	4	19 -	(4.19				<u> </u>
Nam		Brian Start		-	বস			s way	
		Trinos Topes Outlon Odd Total	*					a tractor	
34/	1		34/60	N	9/8	1.0		Bss	WR
Test	ing bee	of the Automatic Altitude Report n complied with as required by	ing Eq FAR 9	uipm 1-217	nt			halts (Career	
			266		) (4-7			person.	
Nam	e .	ertified Repair Station OG5R092N	1	<u> </u>	40			4.5	
					1			7	
	T		1					1	
<b>†</b>	T		1		1	<del>                                     </del>	+		<del>                                     </del>
	I cert Part Station Altimodelli Flight Name	I certify the Part 91-4 Static Sy Altimeter Left Al	autopilot transducer.  Tightened fitting.  I certify that Altimeter and Static Systems Part 91-11 have been performed.  Static System Test Date 9/38/64  Altimeter Test Date 9/28  Right Altimeter Test Date 9/28  Right Altimeter Test Date 9/28  Name Corified Repair Station OGSROSEN  34/ /60    Testing of the Automatic Altitude Report has been complied with as required by  Date Test Performed 9/28/64	autopilot transducer.  Tightened fitting.  I certify that Altimeter and Static Systems tests repart 91-411 have been performed.  Static System Test Date 9/38/04  Altimeter Tested to 9/38/04  Altimeter Test Date 9/28/04  Right Altimeter Test Date 9/28/04  Name Corified Repair Station OGSROSEN  34/60  Testing of the Automatic Altitude Reporting Edhas been complied with as required by FAR 9  Date Test Performed 9/28/04  Name Run Staul	34/ Name Running State Reported State Reported Repair Station Of the Automatic Altitude Reporting Equipments been complied with as required by FAR 91-217.	34/ 1 Found leak at autopit 1/6 N 1/8  autopilot transducer.  Tightened fitting.  I certify that Altimeter and Static Systems tests required by Part 91-411 have been performed.  Static System Test Date 9/38/04  Altimeter Tested to 9/38/04  Left Altimeter Test Date 9/28/04  Name Certified Repair Station OGSROO2N  34/ 60 1 34/ 60 N 1/8  Testing of the Automatic Altitude Reporting Equipment has been complied with as required by FAR 91-217.  Date Test Performed 9/28/04  Name Run Sun Sun	34/ 1 Found leak at autophit 1/6 N 9/8 2.5    autopilot transducer.   Tightened Sitting.     I certify that Altimeter and Static Systems tests required by Part 91-411 have been performed.    Static System Test Date 9/28/64     Altimeter Tested to 20,000   feet     Left Altimeter Test Date   N/A     Name   Suia Station OGSROSEN     34/60   34/60   1/60 N 9/8 1.0   Testing of the Automatic Altitude Reporting Equipment has been complied with as required by FAR 91 217.   Date Test Performed 9/28/64   Name   Rue Suia Station OGSROSEN     Name   Rue Station OGSROSEN     Nam	34/ // Co I Found leak at autopit 34/ N 9/8 2.5    Certify that Altimeter and Static Systems tests required by Part 31-11 have been performed.    Static System Test Date 9/28/04   Geet	34//60   Found leak at autopit 36/10 N 9/8 2.5 BSS    Qutopilot transducer.   Tightened fitting.     I certify that Altimeter and Static Systems tests required by Part 91-411 have been performed.     Static System Test Date 9/28/64     Altimeter Test Date 9/28/64     Right Altimeter Test Date   N/A     Name   Size Station OGSROSON     34//60   3/60 N 9/8 1.0 BSS    Testing of the Automatic Altitude Reporting Equipment has been complied with as required by FAR 91-217.     Date Test Performed 9/28/64     Name   Right Station Station Officer Station Offic

_		INSPECT	ION S	JPPLEMENT AND WORK ORDER		Page _	<i>8</i> _ of	2		CA.	120
eg#:	(N) 777ND			Work Order #: <u>/03 9<i>a</i>% \</u>							
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC		Hrs	OT	Mech	Insp
3	transponder biennial insp	34/50	1		34%	N	9/28	1.0	_	SSS	MSB
**\/	dae.		I certif	y that ATC Transponder Test & Inspection	Periuppe						
			,,,,	RPart 91-413 have been portismed. S/N 83707422 Date 9/26	104						
			Name	Buin Soul	1000						
				JRS OGSRUØZN							
4	EHSI needs to be	34/40	1	Ran a/c and aligned	34/40	٦	%8	8.0	1	BSS	msn
	EHSI needs to be aligned with DG.			EHSI with DG an			_	-	_	_	
	•			Compass rose.				_			11:55
7			la	certify the aircraft airframe, aircraft engine, prop ppliance identified above was repaired and insp	ected in						
$\dashv$			A 10	peerdance with current regulations of the Feder dministration with respect to the work performe and to be airworthy and is approved for return	d and						
+				ertified Repair Station OG5R092N  uthorized Signature May 3 Supply in the state of 28-04							
+	7		<del>  </del>	18. 18. 18. 18. 18. 18. 18. 18. 18. 18.	+	T	1	+	$\top$		

	EMENT AND WORK OR	DER
INICOS CTION SI INVI	- Maria Lander	-

Page 1 of

Odegard School of Aerospace Sci. WKO#.

Mech:

1039558 DMT

OBTAIN ALL

INITIALS BEFORE FILING

University of North Dakota

Grand Forks Intl. Airport Mark Andrews Field

Shop Code: W Equip Code: A

Grand Forks, ND 58202 Repair Station# OG5R092N

Opened:

10/6/2004 16:45

Parts (optl)

Date closed:

Customer: EASE

Acct#: 9999-0000-471

Preliminary Insp\_

In Progress Insp

N#: N777ND AcftType: SR20

Model: SR20

Bill Meter: 324.7

A/F Tach: 324.7 **TSO** 

Part# SR20 10-360-ES6B Serial# 1258

Description AIRFRAME

ENGINE (CIRRUS SR20) TELEDYNE C

327.3 327.3 327.3 327.3

Total Time

PHC-J3YF-1RF

357498 FP1868B

**PROPELLER** 

327.3

327.3

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	þТ	Mech	Insp
Al jeaund	12 20	1		14 20	N	10-6	10		DMT	AM
cleaning.			cleaned AlC US required				1			
			* ***	100						
	-									
					-					

	<u>IN</u> S	SPE	CTION SUPPLEMENT AND WORK O	RDER			Pa	ge 1 of _	6
Odegard School of Aerospace Sci University of North Dakota Grand Forks Intl. Airport	Med	h:	RMK <u>INIT</u>	TAIN AL		RE FILII	<u>vg</u>		&ø
Mark Andrews Field Grand Forks, ND 58202	an record di	id comme	de: F	χÝ		1			7
Repair Station# OG5R092N	Ope	ned:	10/7/2004 6:59 Parts (opt					10.8.20	09
Customer: EASE Acct#. 99	99-000	0-47	1 Preliminary Insp W	'In F	rogre	ss Insp	M		
N# N777ND AcftType: SR20	Mod	el: S	GR20 Bill Meter:	324.7	ΑΛΙ	Tach:	324.7	Init 2	ned .
<u>Part#</u> <u>Seria</u> SR20 1258	3377		Description AIRFRAME			TSC 327		327.3	
IO-360-ES6B 3574			ENGINE (CIRRUS SR20) TELE	EDYNE	C	327		327.3	
PHC-J3YF-1RF FP18	688		PROPELLER		- = -	327	.3	327.3	
PD Problem / Property (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	)T Mech	Insp
1. JOO HOUR INSP	320	1	Start-D	0500	N	10.7	4.9	R	B
SUE	4	- (	west	of perfection is	100	10-7	4.7	(ne	u
		2	Compl-t-D	- American	199	10.8	4.7	fork	ud
	and the second			Special Company		10-8	4.7	Cone	us
		-					7	the second	
	and Associated the	- (a <sub>2</sub>		-M.		14	*	7. 15. Example 1.	
7 A	4000		I certify that this aircraft has been i	nenecte	d in a	ccordan	co with	STATE OF THE PARTY	
	45	17.3				g. as ap			
		7	and detailed	an	d was	determ		~ CS	
		8	be in airworthy condition, and is ap Certified Repair Station Of Authorized Signature	GSR092	or re	urn to s	ervice		
20	Chicago,	18	Date 10 8 3004	10					
2 50 UNIVE INCO	9520	1	Congleted &	320	1)	10.8	4.1	the	ms
2 50 HOUR INSP DUE		8	Cary Colo		1	70.0			
/ /		X,							
		200							
	1							2	
+	+	+		-	-	1	11	-	

		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page _	2_0	6			
Reg#	: (N) <u>777/1/b</u>			Work Order #: <u>///3957//</u>							
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA		Date	Hrs	ОТ	Mech	Insp
3	LT MLG BRAKE DADS	32	1	Replaced brake Dads	32,40	1	12-8	,3		Cine	MJ
	HOUN			'							
4	AT MYG BRAVE PAIS HORN	32	J	Reflaced brakefode	3240	N	10-7	٤,٠		Che	Nont
5		7230	7	Dalled bales	7273	a.	108	.3		Cane	mne
	FND LT SIDE OF	,		rivets for baffle	10,50	70		.,			6
	ENGINE			Seal hudlTsike							
6	INDUCTION AIR FILTER	0520	/	REMOVED & REPLACED	7/60	N	10.8	.3		the	mry
	DIRTY			PILTER NEXT DUE DI 534.7	-						
				IVVAI INTO IN SIGH-I							

		INSPECT	ION S	UPPLEMENT AND WORK ORDER			,	- /-			
	7774/0	INSPECT	ION 3			Page _	<u>3</u> 0	1_0_	•		
eg#:	: (N) _777 <i>ND</i>			Work Order #: <u>/039570</u>							225
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
1	ANTERNATOR BELT	2430	1	ADJUSTED TENSION	2430	N	10.8	.Z		Al	mn
	TENSION MOSE										
8	CHT ELECT CONNECTION	7230	1	for CHT Prop	730	N	108	.3		CME-	mn
an and an and an an an an an an an an an an an an an	BADUEN ON AT SIDE			for C 41 ppp							
139	OF ENGINE			/ 1							
	W.		11. 11. m. 155. 1	,							
9	BATTLE GRACIED AT OF	723	/	Stop drilled crack	7230	N	10.8	.ಎ		(me	mn
.72	#6 CYCINDEL	e**		Stop drilled Crack							
		#									
10	LT MAGNETO MISSING	7430	/	INSTALLED NEW	7430	N	10.8	.3		Rek .	Mr
. ,	RUBBER BOOT ON "P"			BOOT							
	LEAD										

Reg#:	(N) <u>777<i>N</i>()</u>	INSPECT		UPPLEMENT AND WORK ORDER  Work Order #: 1019510		Page _	4 01	6			
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
//	PROP NICKED	6/10	/	DALSED PROP	6/10	N	10.8	. 3		RL	mn
12	RY MAGNETO MISSING	7430	/	INSTALLED NEW	7430	N	10.8	.3		phol	mn
i i	RUBBER BOOT ON "P" LEAD	300		AUBBEL BOOT	2/12				đ		
La service de la constante de					12						
13	RI OVERHEAD DOME HHH	33/0	)	done light switch	330	N	10-8	.4		CME	2000
1/-	SHITCH MISSING BUTTON	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		done light switch				-			
14	AIR INLET HOSE ON	330	/	SEAVED -AND HESE	330	N	10.8	.2		pl	mny
	LT SIDE OF ENGINE HAS	37	-		5. St						
	HOLE WHERE BLACK HOSE RUBBED ON 17				-				•		1

		INSPECT	ION S	UPPLEMENT AND WORK ORDER	2	Page .	5 0	1			
leg#:	(N) <u>777ND</u>			Work Order #: <u>/03967</u>						-	
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Ins
15	CENTEL BONSEL AVIONICS	3400	1	REPURCED KNOB	3/60	N.	10.7	.2		Rel	MA
	DISPLAY MISSING RT LNR										
	Kaios										
7		*	, d	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2							
16	LI AFT BEAT PAN SHEET	2510	1	Stop drilled crase	35/0	N	10-8	.2		(ME	MA
	METAL CRACKED			/			-	5			
17	RT MUG PANEL WORN	3210	1	DRESSED PRIVEL AND	3210	N	10.8	.3		M	Nd
	ON TOP AFT ENGE		1	DESELES NEW AVE							1,700
				. /					4		de
8	Neg battery terminal	2430	1	Installed boot	2430	N	10-8	,٤	-	Cm=	Mad
	Neg battery terminal				,			$\dashv$	$\dashv$		
								_	$\dashv$		

(N) 777N/)	INSPECT	ION S	2		Page _	<u>//</u> of	6		Salar Contraction	
	GAMA	CA	Corrective Action (CA)		_	Date	Hrs	ОТ	Mech	Ins
	2820	1	INSTALLED NEW SON	80	N	10.8	./		ML	A
SEAL HOLD				l pul	A STATE OF THE STA					2
IT MLG MISSING LEADING	3210	1	REPLACED NOT PLATE	340	N	10.8	./		that .	M
EDGE NUTPLATE FOR										2
OPPER LEAL MILING					A .		1	1		
INSP TIME	0560	1	Time	30	U	08	0.1	1	NA	,
		Spirit and the second				+	-	+		$\dashv$
			tieses identified above was renained an	all inspected i	in I				2:	
		1 1	accordance with current regulations of the Administration with respect to the work pe found to be airworthy and is approved for Certified Repair Station CGSR092N.	Federal Avia	tion		+	+		-
	1		Authorized Signature			i i i i i i i i i i i i i i i i i i i		-		$\dashv$
	SEAL HOLD LT ML6 MISSING LEADING EDGE NUTRIATE FOR OPPER GEAL FAILING	Problem Description (PD)  GAMA  WEL GASALATOR  SERL HORN  LI MUG MISSING HADING  BOLE NUTPLATE FOR  UPPER GEAR ANRIAGE	Problem Description (PD)  GAMA CA  WEL GASALATOR  SEAL MORN  M ML6 MISSING LEADING 3010 /  EDGE NUTPLATE FOR  OPPER BEAL MILLING	Problem Description (PD)  GAMA CA Corrective Action (CA)  Well (ASALATOR 3890   INSTRUM) NEW SAL  SAL HORN  MALE MISSING LANNIG 3910   MALACO NOT PLATE  BULL NOTATE FOR  MALE MISSING MINISTRUM  I certify the uncost affrains, shoraft enging appliance infantified plane was required at a coordance with current requiritions of the Administration with respect to the work per found to be airworthy and is approved for Certified Repair Station COSCNOS2N	Problem Description (PD)  GAMA CA Corrective Action (CA) GAMA  Well GASALAHOR  SAL HORN  MISSING LADING 3910   MANAGED NOT PLATE  BOLL NUTDIATE FOR  MISS TIME  I certify the uncart airframe, shoraft engine, appliance identified phaye was in sepercial to the work performed and found to be airworking and is approved for ritum to sepercial months and possible and properlies appliance industries allowering and is approved for ritum to sepercial months and possible provinces and appropriate and inspect to the work performed and found to be airworking and is approved for ritum to sepercial months and approved for ritum to sepercial months and proved for ritum to sepercial months and approved for ritum to sepercial m	Problem Description (PD)  GAMA CA Corrective Action (CA) GAMA ACC  AUEL CASALATOR  JESO J INSTALLED NEW SEW N  SAL HOLD  MISSING LABOUG 3010 J REPUBLIED NEW PLANTE 300 N  EDGE NUTRINE FOR  MPER HAR MILLING  JUST TIME  JU	Problem Description (PD) GAMA CA Corrective Action (CA) GAMA ACC Date  ### DESCRIPTION (PD) GAMA CA Corrective Action (CA) GAMA ACC Date  ###################################	Problem Description (PD)  GAMA CA Corrective Action (CA) GAMA ACC Date Hrs  Well CASALATOR  JEST INSTITUTE  ALLE MISSING LADING  JANUARY MISSING  J	Problem Description (PD) GAMA CA Corrective Action (CA) GAMA ACC Date Hrs OT  NEW CASALATOR 3890 / INSTALLED NEW SOL BSD N NS ./  SAL MORN  SAL MISSING MONING 3910   REMARKED NOT NATE 390 N NS ./  BUSE NUTRICE FOR  MEDICAL MINING SOL BOOM NOS ./  I certify the uncosh airforms, shoraft engine, propeller or appliance identified those was recorred and inspected in accordance with current repulsions of the declar Available accordance with current repulsions of the declar Available found to be airward responsed for which the solver source of the corrections of the declar Available found to be airward responsed for which the solver source of the corrections of the declar Available found to be airward repulsions of the declar Available found to be airward responsed for which the solver source of the corrections of the declar Available found to be airward responsed for which the solver corrections and inspected in solver source of the corrections of the declar Available found to be airward responsed for which the solver corrections are considered and inspected in solver corrections and inspected in solver corrections are considered and inspected in solver corrections are considered and inspected in solver corrections are considered and inspected in solver corrections are considered and solver corrections are considered and corrections are considered	Problem Description (PD) GAMA CA Corrective Action (CA) GAMA ACC Date Hrs OT Mech  **Problem Description (PD) GAMA CA Corrective Action (CA) GAMA ACC Date Hrs OT Mech  **Problem Description (PD) GAMA CA CORRECTION (CA) GAMA ACC Date Hrs OT Mech  **Problem Description (PD) GAMA CA CORRECTION (CA) GAMA ACC Date Hrs OT Mech  **Problem Description (PD) GAMA CA CORRECTION (CA) GAMA ACC Date Hrs OT Mech  **Problem Description (PD) GAMA CA CORRECTION (CA) GAMA ACC Date Hrs OT Mech  **Problem Description (PD) GAMA ACC Date Hrs OT Mech

PARTS &

#### **MATERIAL REQUISITION**

DATE 16/07/04 ACFT NO. N777ND W/O NO. 1039570

PD	MI	Part Number	Serial Number	Description	Quan.	MCC Return Y/N	Batch #
1 +	RAK	C × 48110		oilfilter			3758
LY		oil		oil	8		
LY	1	M\$35769-11		gask,	1		2557
W		M\$35769-21		gask. gask. gask. oil filter	(		3504
W	$\cdot$	M-674	2	gask.	12		3504
1	.	CH48109		oil filter	1		2426
		M\$29512-137		oring	1		2298
V B		B3-5-1 M\$25171-3\$ M\$25171-1\$ BA24		Filki	1		3706
18		M\$25171-3\$		boot	1		3151
101	1	M\$25171-1\$	2	boot	<b>@</b> 21		2247
2		BAAY	<b>*</b>	aistilter	1		3769 3769
4	1	66-141	•	pad	4		3769
4	-	105-2		pad rivet	125		3345
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	+++	MBa 571-15 50802-001 12467-602		wellout	1		2703
21	++	1447 (01		- switch	1		3768
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Odegard School of Aerospace S University of North Dakota Grand Forks Intl. Airport Mark Andrews Field	Me	KO# ech: op C	SJR <u>INT</u>	TAIN AL		E FIUN	<u>IG</u>	,	ge
Grand Forks, ND 58202 Repair Station# OG5R092N		uip ( ened	Code: A R/A d: 10/9/2004 13:11 Parts (opt	1)(		Date	closed	10/2	lot
Customer: EASE Acct#. 9	999-00	00-4	71 Preliminary Insp	In F	rogre	ss Insp			
##. N777ND AoftType: SR20	Мо	del:	SR20 Bill Meter:	329.1	A/F	Tach:	331.0	Init <u>d</u>	m
Part# Seri			Description			<u>TSO</u>		otal Time	
SR20 125			AIRFRAME			333.		333.6	
0-360-ES6B 3576 PHC-J3YF-1RF FP1	969B 188		ENGINE (CIRRUS SR20) TEL PROPELLER	=DYNE	C	333. 333.	(70)	333.6 333.6	
D Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT Mech	Insp
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eft Corner of		_	front cowling Notice	1					
owling			on lost inspection						
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	appl	iance ordan	ne aircraft airframe, aircraft engine, propelle Identified above was repaired and inspecte se with current regulations of the Federal A	d n					
	Adm foun	inistr d to t	ration with respect to the work performed on the airworthy and is approved for return to see Repair Station OG5R092N	1//					
	Auth Date	orize	d Signature Start/Mike						
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Odegard School	0.0 <b></b>			ON SUPPLEMENT	AND WORK (	ORDER			Pa	age 1 of	
Odegard School of Aerospa University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202	1		n: Code:		<u>INIT</u>	TAIN A	LL BEFOR	RE FILII	<u>vg</u>		Sp
Repair Station# OG5R092N		open Open	Code: ed:	10/18/2004 8:16	R/A Parts (op	h) 5	3	D-4		. /02	118/2
Customer: EASE Acct	<del>f.</del> 9999-0			Preliminary		7		Date Ss Insp≘		d: <u>10</u>	II S IQ
N#: N777ND AcftType: SR	20 M	lode	I: SR2	0	Bill Meter:			F Tach:		Ini	10
	Serial#			Description				TSC	) 1	otal Tim	
	1258			AIRFRAME				363		363.9	
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PHC-J3YF-1RF	FP1868B			PROPELLER				363	.9	363.9	,
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UNIVERSITY OF No.
Grand Forks International Angerand Forks, ND (701) 777-7900 FAA Repair Station #065R092N

SERVICEABLE TAG

l certify this aircraft part/component was repaired and inspected in accordance with current Federal Aviation regulations, was found airworthy, and is approved for return to service. Pertinent details of the repair are on file at this agency under

WOF: 10398/6

Doverhauled Repaired

Date: 107/4/04

Part #: 6-249

Serial #: 6-249

Part Name: Add The: 104 Time: 104

KORDER	Page 1 of
OBTAIN ALL INITIALS BEFO	DRE FILING
(opti)	Date closed: 10 - 14-04
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A/F Tach:

PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	ᄗ	Mech	Insp
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### MATERIAL REQUISITION

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	INSPEC	TION SUPPLEMENT AN	D WORK OR	<u>DER</u>			Pag	e 1 of	<del>`</del>
Odegard School of Aerospace Sci.	WKO#	1040040	OBTA	IN AL	L				C.
University of North Dakota	Mech:	KHP				E FILIN	G		10
Grand Forks Intl. Airport			(						1
Mark Andrews Field	Shop Cod		R/A	D				,	٠,
Grand Forks, ND 58202	Equip Co		-	55		Data	alacad:	10/3	אלוב
Repair Station# OG5R092N	Opened:	10/21/2004 6:01	Parts (opti)	)		Date	CIOSEO.	10/6	<del>~~~</del>
Customer: EASE Acct#: 999	99-0000-471	Preliminary Ins	ip MKB	In P	rogre	ss Insp j	MSTS		· 
N#: N777ND AoftType: SR20	Model: 9	6R20	Bill Meter: 37	70.8	AF	Tach: 3			오 출
Part# Serial	<u>¥</u>	Description				<u>TSO</u>		tal Time	
SR20 1258		AIRFRAME				373.	4	373.4	
IO-360-ES6B 35749	8	ENGINE (CIRRUS	SR20) TELEI	DYNE	C	373.	4	373.4	
PHC-J3YF-1RF FP186	38B	PROPELLER				373.	4	373.4	
PD Problem / Discrepancy (PD)	ATA CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	)T Mech	Insp
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certify the aircraft airframe, at	raft entine	modeller or		1, 2					
appliance identified above was r accordance with current regulati	repaired and in	nspected in deral Aviation							
Administration with respect to the found to be airworthy and is app				+	+-	+	+	+-	+
Certified Repair Station OG5R	92N.	w <del>co.</del> 1100.							
Authorized Signature / NW Date 10 21 09	3.44			1111	1	T	1		$\top$
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	Frand Forks, Repair Station		2N		ened		10/21/2004 10:44	1000000	rts (opti)	TE	D	Date	close	d:	10/2	2/04
С	ustomer: EA	NSE A	.cc##. 99	99-000	10-47	71	Preliminary	Insp 🖊	NSB	U <sub>In I</sub>	Progre	ss Insp	_		7	7
N	#: N777ND	AcftType:	SR20	Мос	del:	SR20	D	Bill N	Meter: 3	70.8	A/F	Tach:	370.8		Init_	SHP
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	R20		1258				AIRFRAME					373.	4	;	373.4	
	-360-ES6B		3574	98			ENGINE (CIRRI	JS SR2	) TELE	DYNE	C	373.	4	;	373.4	
Pł	HC-J3YF-1R	₽F	FP18	688			PROPELLER					373.	4	;	373.4	
2	Problem /	Discrepand	y (PD)	ATA	CA	Cor	rective Action (CA	<b>\)</b> .			ACC	Date	Hrs	рτ	Mech	Insp
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	found to	tration with re be airworthy Repair Statio	and is app	roved to	erfon retu	med a	nd service.							-		.3

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	н	<b>VSPI</b>	ECTION SUPPLEMENT AND WORK (	ORDER			Pa	age 1 of .	32
Odegard School of Aerospace Sc University of North Dakota Grand Forks Intl. Airport Mark Andrews Field	- Me Sh	oh: op C	SJR INIT	TAIN A		RE FILI	NG		, 84 ,
Grand Forks, ND 58202			code: A R/A	$\psi$	V .			101	/./.
Repair Station# OG5R092N	Op	enec	: 10/21/2004 15:03 Parts (op	B)	5_	Date	e closed	1: 10/	24/08
Customer: EASE Acct#: 99	999-000	00-4	71 Preliminary Insp	In	Progr	ess Insp	<u>UN</u>		
N#: N777ND AcftType: SR20	Ma	del:	SR20 Bill Meter:	370.8	A	F Tach:	370.8	Init	me.
Part# Seria	a₩		<u>Description</u>			TSC	<u> 1</u>	otal Time	
SR20 1258			AIRFRAME		d-m	373	.4	373.4	
O-360-ES6B 3574	98		ENGINE (CIRRUS SR20) TEL	EDYNE	C	373	.4	373.4	
PHC-J3YF-1RF FP18	868B		PROPELLER			373	.4	373.4	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT Mech	Insp
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		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page _	2_0		-		J. Na
eg#:	(N) N777ND			Work Order #:						14.	
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
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		accorda Adminis found to	nce with tration w be airw	current regulations of the Federal Aviation ith respect to the work performed and orthy and is approved for return to service.							
	1		ed Sign	Station OGSBSON.							

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#### **MATERIAL REQUISITION**

N777ND DATE 10/21/84 1040057 ACFT NO. W/O NO. \_\_\_\_

МІ	Part Number	Serial Number	Description	Quan.	MCC	Return Y/N	Batch #
SUR		, we a	oilfilt-	1			335
	01	12.4	011	8			
-	12974-002		fairing				376
	M\$35769-11	- 12 m	gask	)			2557
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Odegard School of Aerospace S University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N Customer: EASE Accl# 9	Me She Equ Ope	uip C enec	JEB <u>INITI.</u> rode: F  Code: A R/A N  1: 10/26/2004 6:43 Parts (opt)		EFOR	Date	closed	ı: <u>//</u>		84 :/04
N#: N777ND AcftType: SR20	Mod	del:	SR20 Bill Meter: 3	85.4	A/F	Tach: 3	385.4		Init _	TEB
Part#         Serie           SR20         1258           IO-360-ES6B         3574           PHC-J3YF-1RF         FP18	98 98 369B	<b>1</b>	<u>Description</u> AIRFRAME ENGINE (CIRRUS SR20) TELE PROPELLER	1		TSO 388. 388. 388.	0 0 0	34	Time 38.0 88.0 88.0	
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Page 1 of <u></u>

	Odegard Sch University of Grand Forks	North Dako Intl. Airport	ota	Me	KO# ech: eop C		INIT	AIN AL		E FILIN	<u>IG</u>			B
	Mark Andrew Grand Forks, Repair Station	ND 58202		1.7	uip ( ened	Code: A d: 10/29/2004 7:51	R/A Parts (opti		D	Date	closed	i: _/	10-29-	2007
=	Customer: EA	SE A	\cc#: 9	888-00	00-4	71 Preliminary II	nsp	¶n F	rogre	ss Insp _		_		_
1	W#: N777ND	AcftType:	SR20	Мо	del:	SR20	Bill Meter: 3	394.3	A/F	Tach:	394.3		Init 🛭	n
	Part# 6R20		<u>Seria</u> 1258	7 100 7 100		Description AIRFRAME				<u>TSO</u>	9	3	<u>l Time</u> 396.9	
	D-360-ES6B HC-J3YF-1RI	F	3574 FP18			ENGINE (CIRRUS	SR20) TELE	DYNE	c	396. 396.			396.9 396.9	
P	Problem / [	Discrepano	y (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	DΤ	Mech	Insp
<u>i</u>	Copilot	door la	tch	10	1	Resecured dos	handle	5210	N	1%21	1.0		Tin	
	Copilot handle	wort re	cess			Main sheft housi	ng in							
	into the	door				door Operations	1 sheek							
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Page 1 of \_\_\_\_

		88-000	<i></i>	Preliminary I	ngp /	In F	Progre	ss nsp				
#: N777ND AcftTy	pe: SR20	Mode	el: SR20		Bill Meter: 4	16.4	A/F	Tach:	416.4		Init Z	al.
P <u>art#</u> R20 D-360-ES6B HC-J3YF-1RF	<u>Serial</u> 1258 35749 FP186	98	Ā	<u>lesoription</u> IRFRAME NGINE (CIRRU ROPELLER	S SR20) TELE	EDYNE	С	TSO 419 419 419	0	4	Time 19.0 19.0 19.0	*
Problem / Discrepa	ency (PD)	ATA (	CA Correc	tive Action (CA		ATA	ACC	Date	Hrs	ы	Mech	Ins
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in al temp or	.			Ron airci scure gauge								
Caused aununcins	to to		1'	oil pressu								
illuminate speca	ticolly		gwd.	, .	Sensol					-		-
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	h)	certif	v the aircraft a	irframe, aircraft er	oioo	7447			1			q
		accord	ance with cur	above was repaire rent regulations of espect to the work and is approved	and inspected	1				-		-
			d Repair Stati zed Signature	ON OGS OF STATE	All Services	2						+
			1 4.0							+		-
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11/4/2004 12:05

**JDR** 

Mech:

Opened:

Shop Code: F

Equip Code: A

Odegard School of Aerospace Sci. WKO#:

University of North Dakota

Repair Station# OG5R092N

Grand Forks Intl. Airport

Mark Andrews Field Grand Forks, ND 58202

Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N  Customer: EASE Acci#: 9999-1  N#: N777ND AcftType: SR20  Part# Serial# SR20 1258 IO-360-ES6B 357498 PHC-J3YF-1RF FP1868B  PD Problem / Discrepancy (PD) AT  I Autoplot GPS/No. 34  Coupled W/GPS I	Model: S	Description AIRFRAME ENGINE (CIRRUPROPELLER  Corrective Action (CA)	Bill Meter: 4	In P	A/F	Date s Insp _ Tach: 4	18.4 18.4 0	otal 4	Init K Time 19.0 19.0	THP THP
Grand Forks, ND 58202 Repair Station# OG5R092N  Customer: EASE Accl#: 9999-1  N#: N777ND AcftType: SR20  Part# Serial#  SR20 1258  IO-360-ES6B 357498  PHC-J3YF-1RF FP1868B  PD Problem / Discrepancy (PD) AT  Autoplot GPS/A)au 34  "fail." HS I not  Coupled w/GPS I	Opened: 0000-471 Model: S	11/3/2004 21:35  Preliminary II  R20  Description  AIRFRAME  ENGINE (CIRRUITED PROPELLER  Corrective Action (CA)  Wenton to M	Party (opti)  nsp 4  Bill Meter: 4  S SR20) TELE	In P 16.4  DYNE	A/F	Tach: 4 TSO 419.0 419.0	18.4 10.0	otal 4 4 4	/ Init <u> </u> Time 19.0	T
Repair Station# OG5R092N  Customer: EASE Accl#. 9999-1  N#: N777ND AcftType: SR20  Part# Serial#  SR20 1258  IO-360-ES6B 357498  PHC-J3YF-1RF FP1868B  PD Problem / Discrepancy (PD) AT  Autoplot GPS/No. 34  "fail." HSI not  Coupled w/GPS I	Opened: 0000-471 Model: S	11/3/2004 21:35  Preliminary II  R20  Description  AIRFRAME  ENGINE (CIRRUITED PROPELLER  Corrective Action (CA)  Wenton to M	Bill Meter: 4	In P 16.4  DYNE	A/F	Tach: 4 TSO 419.0 419.0	18.4 10.0	otal 4 4 4	/ Init <u> </u> Time 19.0	T
Customer: EASE Accist: 9999-1  N#: N777ND AcftType: SR20  Partst Serialst SR20 1268 10-360-ES68 367498 PHC-J3YF-1RF FP1868B  PD Problem / Discrepancy (PD) AT  I Autopliot GPS/A)au 34  "fail." HSI not  Coupled w/GPS I	0000-471 Model: Si	Description AIRFRAME ENGINE (CIRRUITED PROPELLER  Corrective Action (CA)  Wentin to M	Bill Meter: 4	18.4 DYNE	A/F	Tach: 4 TSO 419.0 419.0	18.4 18.4 0	4 4	<u>Time</u> 19.0 19.0	TP .
Part# Serial#  SR20 1268  10-360-ES68 367498  PHC-J3YF-1RF FP1868B  PD Problem / Discrepancy (PD) AT  I Autopilot GPS/Now 34  "fail." HSI not  Coupled W/GPS I	TA CA (	Description AIRFRAME ENGINE (CIRRUIT PROPELLER  Corrective Action (CA)  Wenton to M	S SR20) TELE	DYNE (	c	TSO 419.0 419.0 419.0	<u>T</u>	4 4	<u>Time</u> 19.0 19.0	野
Serial#   Serial#   1268   1268   10-360-ES6B   367498   PHC-J3YF-1RF   FP1868B   PD   Problem / Discrepancy (PD)   AT   Autophot GPS/Nau   Stail   HSI not   Coupled w/GPS   I	TA CA (	AIRFRAME ENGINE (CIRRU PROPELLER  Corrective Action (CA)  Wentin to M	)	ATA		419.0 419.0 419.0	0 0	4 4	19.0 19.0	
PD Problem / Discrepancy (PD) AT  I Autopilot GPS/Now S  "fail." HSI not  Coupled w/GPS I	TA CA (	ENGINE (CIRRUPROPELLER  Corrective Action (CA)  Wentin to M	)	ATA		419.0 419.0	0	4	19.0	
PHC-J3YF-1RF FP1868B  PD Problem / Discrepancy (PD) AT  I Autopilot GPS/Now 34  "fail." HS I not  Coupled w/GPS I	TA CA (	PROPELLER  Corrective Action (CA  Wentin to M	)	ATA		419.	0	4		
PD Problem / Discrepancy (PD) AT  I Autopilot GPS/Now /S  "fail." HSI not  Coupled w/GPS I	TA CA (	Corrective Action (CA Wenton to M			ACC			<b>—</b>	19.0	
"fail." HSI not  Coupled w/GPS 1	50 1	Wentanto m			ACC	Date	Hrs	H		
"fail." HSI not  Coupled w/GPS 1	50 1		IX Pages	34/	=			ויץ	Mech	Insp
"fail." HSI not  Coupled w/GPS 1			IX pages		7	11/	0.7	П	B <b>s</b> s	B
Coupled w/GPS 1		in Sandel EHS		50	-	/83	0	Н	0.33	<del>(C</del>
Coupled w/GPS 1			T. Config		<u></u>			Ц		
	<del>-     '</del>	Naul for GINS	43A.							
2.4					1				- E	
24	+	Autopilot and No	u / aps				<del>                                     </del>	-		<del>                                     </del>
24		check good.	p. no. o o o o o o o o o o o o o o o o o					+		ऻ—
3.6				1	1 1/2 1/2	1				
Q MFD on setup page 34/s	0 1 1	Reconfigured	EASIS	34/	N	14	<b>a</b> .5	5	RH?	18
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Heading invalid.	F	pages. All a to factory MFD tests	re set				+	+		-
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						1991				
		uth no err	or ines	SOCC	7					9.4
pertify the aircraft airframe, aircraft engine, prophilance identified above was repaired and in	aspected in	1								
Accordance with current regulations of the Fed Administration with respect to the work perform cund to be airworthy and is approved for the control of the c	ned and	<b>7</b> "							İ	
artified Repair Station OG57452N			Lucation Pro-	+	1					+
orthorized Signature 2011	#					) - T				
- 1/1/1/					= 1					
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Mark Andrews Field Grand Forks, ND 58202		•	code: A R/A	$\mathscr{C}_{\perp}$	2	^				
Repair Station# OG5R092N	•	ened		rts (opti)	SA	D	Date	closed:	<u>ه/د</u> :	5/04
Customer: EASE Acct#: 9	999-000	00-4	71 Preliminary Insp ⊥	400	In F	rogres	s Insp	MAS		
N#: N777ND AcftType: SR20	Мос	del:	SR20 Bill	Meter: 42	3.2	A/F	Tach: 4	23.2	Init j	355
Part# <u>Seri</u>	al#		Description				TSO	Te	otal Time	
SR20 1258	3		AIRFRAME				425.6	3	425.8	
IO-360-ES6B 3574	198		ENGINE (CIRRUS SR2	O) TELEI	DYNE	С	425.	3	425.8	
	8688		PROPELLER	.,		_	425.	9	425.8	
1110 0011 111										
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	OT Mech	Insp
1 Autopilot Alt hold not	22/10	1	Ground test autopi		ادچ	2	11/5	4.0	333	mg
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		12	Could not duplicate pi	6+					1	-
			descrep. Roth had	ing	Á.					
			and AH mode apaci	V						
16										107
	2/1/		good.		21/	+	· ,	+	+	+-:
ATC reporting attitude	34/	1	Test and aligned	acadec	34/0	N	11/05	3.0	133	s IM
200' off what is			on bench. Installe	d back						
indicated on altimeter			into A/c. Static sy		7.5					
									See See See	8.65° AD
			leak that whis li	mits.	<del>                                     </del>	+	t	1		
	4		Allops checks good.							
		certif	the aircraft airframe, aircraft engine							
			ice identified above was repaired ar ance with current regulations of the				77		1	
			stration with respect to the work pe							
	fo	und	o be airworthy and is approved for i			n, e	17	1		
	9	erune	d Repair Station OG5R092N.	/						
	A	uthou	zed Signature	5		-				- 1
•			11 61	Color Color Standard Color Color						

Odegard School of Aerospace Sci. WKO#: 1040607  University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202  Repair Station# OG5R092N  Opened: 11/9/2004 16:36  Customer: EASE Acci#: 9999-0000-471  Preliminary Insp In Progress Insp  N#: N777ND AcftType: SR20  Model: SR20  Bill Meter: 423.2  A/F Tach: 423.2  Part#  Serial#  Description SR20  1258  AIRFRAME  AIRFRAME  FP1868B  PROPELLER  POPELLER  ATA ACC Date Hrs Drawing  ATA ACC Date Hrs Drawing  Customer Discrepancy (PD)  ATA CA Corrective Action (CA)  ATA ACC Date Hrs Drawing  Cequired  Customer Discrepancy (PD)  ATA CA Corrective Action (CA)  ATA ACC Date Hrs Drawing  Cequired  Customer Discrepancy (PD)  ATA CA Corrective Action (CA)  ATA ACC Date Hrs Drawing  Cequired  Cequired  Cequired	Init M)P tal Time 425.8 425.8 425.8
Mark Andrews Field         Shop Code: W         W         R/A         R/A         Date closed: Date closed	Init M)P tal Time 425.8 425.8 425.8
Grand Forks, ND 58202         Equip Code: A         R/A         N//         Date closed:           Repair Station# OG5R092N         Opened: 11/9/2004 16:36         Parts (opti)         Date closed:           Customer: EASE         Acc##. 9999-0000-471         Preliminary Insp         In Progress Insp           N#: N777ND         AcftType: SR20         Model: SR20         Bill Meter: 423.2         A/F Tach: 423.2           Part#         Serial#         Description         TSO         Tot           SR20         1258         AIRFRAME         425.8           IO-360-ES6B         367498         ENGINE (CIRRUS SR20) TELEDYNE C         425.8           PHC-J3YF-1RF         FP1868B         PROPELLER         425.8           PD Problem / Discrepancy (PD)         ATA         CA         Corrective Action (CA)         ATA         ACC         Date         Hrs         Dr	Init M)P tal Time 425.8 425.8 425.8
Repair Station# OG5R092N         Opened:         11/9/2004 16:36         Parts (opti)         Date closed:           Customer: EASE         Accl#. 9999-0000-471         Preliminary Insp	Init M)P tal Time 425.8 425.8 425.8
N#: N777ND         AcftType:         SR20         Model:         SR20         Bill Meter:         423.2         A/F Tach:         423.2           Part#         Serial#         Description         TSO         Tot           SR20         1258         AIRFRAME         425.8           IO-360-ES6B         357498         ENGINE (CIRRUS SR20) TELEDYNE C         425.8           PHC-J3YF-1RF         FP1868B         PROPELLER         425.8           PD Problem / Discrepancy (PD)         ATA         CA         Corrective Action (CA)         ATA         ACC         Date         Hrs         D	tal Time 425.8 425.8 425.8 T Mech Insp
Part#         Serial#         Description         TSO         Tot           SR20         1258         AIRFRAME         425.8           IO-360-ES6B         357498         ENGINE (CIRRUS SR20) TELEDYNE C         425.8           PHC-J3YF-1RF         FP1868B         PROPELLER         425.8           PD Problem / Discrepancy (PD)         ATA         CA         Corrective Action (CA)         ATA         ACC         Date         Hrs         D	tal Time 425.8 425.8 425.8 T Mech Insp
SR20         1258         AIRFRAME         425.8           IO-360-ES6B         357498         ENGINE (CIRRUS SR20) TELEDYNE C         425.8           PHC-J3YF-1RF         FP1868B         PROPELLER         425.8           PD Problem / Discrepancy (PD)         ATA         CA         Corrective Action (CA)         ATA         ACC         Date         Hrs         D	425.8 425.8 425.8 T Mech Insp
10-360-ES6B   357498   ENGINE (CIRRUS SR20) TELEDYNE C   425.8	425.8 425.8 T Mech Insp
PHC-J3YF-1RF FP1868B PROPELLER 425.8  PD Problem / Discrepancy (PD) ATA CA Corrective Action (CA) ATA ACC Date Hrs D	425.8
PD Problem / Discrepancy (PD) ATA CA Corrective Action (CA) ATA ACC Date Hrs D	T Mech Insp
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cleaning required 12 1 Hc cleaned us 12 N 11/8/4 0.5	mse
cleaning required	
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	11	NSPI	ECTION SUP	PLEMENT A	ND WORK O	RDER			P:	age 1 of	1
Odegard School of Aerospace Sc	si. WI	KO#:				AIN A	,,			-8- 101	
University of North Dakota Grand Forks Intl. Airport		ech:	WEL.					RE FILI	NG		
Mark Andrews Field	Sh	op C	ode: W		V	1,				1	198
Grand Forks, ND 58202			Code: A		R/A	Ψ	,				•
Repair Station# OG5R092N	Op	ened	d: 11/15/	2004 18:25	Parts (opti	) 8~	1	Date	e closed	d: 11-15-	04
Customer: EASE Acc#. 99	399-00	00-4	71 F	Preliminary In	sp	In I	Progr	ess Insp			
N#: N777ND AcftType: SR20	Мо	del:	SR20		Bill Meter: 4			F Tach:	====	Init 💋	OM T
Par## Seria	144		-				, •	racii.	423.2	IIII 🛂	
SR20 1258				ription				TSC	<u>I</u>	otal Time	
IO-360-ES6B 3574				RAME				425	.8	425.8	
				NE (CIRRUS	SR20) TELE	DYNE	C	425	.8	425.8	
PHC-J3YF-1RF FP18	088		PROF	PELLER				425	.8	425.8	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective /	Action (CA)		ATA	ACC	Date	Hrs	OT Mech	Insp
1 A/c reacised	12 20	1	Cleaned	A/C		12 20	N	11-15	1.0	BMT	
Cleaning			ας	AIC	ad		-				
Cy				77000							
	est.					3.					
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University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N  Customer: EASE Acct#: 99  N#: N777ND AcftType: SR20	Med Sho Equ Ope 199-000	op Co uip C ened 00-47	JDL <u>(INIT)</u> ode: F ode: A R/A : 11/10/2004 7:08 Parts (opti	<u>5</u> /^   In I	Progre	Date Page 1 Tach:	e cl <b>a</b> sed	:	
Part#         Seria           SR20         1258           IO-360-ES6B         3674           PHC-J3YF-1RF         FP18	98 68B		<u>Description</u> AIRFRAME ENGINE (CIRRUS SR20) TELE PROPELLER			TSC 425 426 426	.8 .8	Init / otal Time 425.8 425.8 425.8	(AL
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ACC	Date	Hrs	OT Mech	Insp
Annual, 100 hr, and	20	1	completed annual,	20	10	1/10	7.0	nig	Ø,
50 ha, jusp. due	743		100 hr., and 50 hr. Ing.			110	70	St.	M.
3	. 14	fam.				11	6.0	My	My,
compression test results	- 74	246	*			1/2	7.0	200	A
#1 23 # 2 73		1 12 14 12	10 m			1/5	20	293	B
#3 72 #4 74		2		والمعاصور والمارا				-	4
#5 24 #6 77		-	I certify, that this aircraft has been in	pecte	in ac	cordan	e with		
	**		a routine inspection of <u>V/A</u> and detailed		1		plicable	A passerio	3
			be in airworthy condition, and is app	an	d was	determ		All Market	
			Certified Repair Station OG  Authorized Signature  Date	5R092	1	-		1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
8 3.,	Ú,	and a second				7		administration of the second	
2 SB 2x-25-06	04	1	ordered Kit	04	W	1/15	.2	May	B
RI Seat recline	1		For SB 2x-25-06				and the second		'
lock		•				1			
e77ective date 8-30-04	79 1 taglest. 11 -	4			Ç	-			
8-30-04		1			i Legality			330-1	_

		INSPECT	TION S	UPPLEMENT AND WORK ORDER					1	1	1. 12 12
Rega	: (N) 777ND					Page	2	of <u>5</u>	-		3000
				Work Order #: <u>1040620</u>							
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
3	Sis 2x-28-03	04/00	1	Inspected : Found			11/1	3		m	A
-	Frel Selector Valve			Circus SB X-281							
	essective date			Found Puple Edm	m						
	10-8-04	erenden groot		Rad Installed. Or	dere	1					
		Section 1		Parts & SB 2X-2	8-0						
y's				K.f. No. 70097-001							
<u>.</u>	,				-6	9					31
4	Turn Coordinator	Ø5/10	1	Replaced tuen	34/	N	1/4	.2		982	B
	Batteries De for			Replaced turn	,						-
	Replacement										
	,				3						
				-							
				3.							

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		INSPECT	rion s	UPPLEMENT AND WORK ORDER		Page	3	of <u>3</u>		-	
	: (N) 77200			Work Order #: <u>104 06 20</u>							
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
5	# 6 cx bottom phy	74 20	1	Replaced spark	740		10	.2		AN	16
_	When Out			plvg							
Ī	i.										
-		65									
6.	RM MLG Inton-d	37	1	Replaced bearing	32	N	4/4	.2	-	200	A
A .	RM MLG Inton-d Bearing: Race Petted			and ruce		,			7	700	<u> </u>
							-	$\dashv$	+		
7	DAT and clock	31	/	Removed : Replaced	3/	N	"//	5	5	<b>A</b>	100
	OAT and clock battery replacement due		_	AA Battery						e./	
	/		-	Ups sheet god		$\dashv$		_	_	* *	$\Box$
			/	Vert due 11-30-06							- 1

		INSPEC	TION S	SUPPLEMENT AND WORK ORDER		Page	40	of _5			
Reg#	:(N) <u>N777NP</u>			Work Order #: 1040620			·				
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
8	Vacuum regulator	37 10	1	Replaced vacoum	37	N	1/1	,2		Mo	B
_	Filter is due For			regulator Filter							
	replacement			ŭ							
0	0	£(			66						1
9	Rudder gap tolerand	55	1	Ranguel necessary amount	55	N	1/15	.5		All	16/
-	is below minimum			of filugless to meet minimum							
	limits on 1274 and			deflection, painted of they	22						
	right deflections			I.A.W & Cirus tech rep.							1-
		20	1	•						£	
		32		-							
10	well nots worn out	60	1	Installed well	32	U	当	.2	4	292	B
	on H Main Gear Fairing			nuts					1		

	INSPECT	TION S	SUPPLEMENT AND WORK ORDER	?	Page	_5	of _5		
Reg#: (N) <u>N 777NI7</u>			Work Order #: <u>10 4 0 6 2 0</u>						
PD Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	e Hrs	OT Me	ch Ins
11 lower landing year	32 60	1	Installed too	32		1/5	.5	M	2
Fairing missing toso	(1 thus, 25 th 12)		anti chatte speces					1	740
Fricing missing toso spacers anti chatte Hocks									
							1		
		1						2.1	
2 well nots worn out	32	1	Installed new	32	N	1/5	1.0	29-	. 8
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3 Inspectors Time	60	/	Time	05	N	11/15	2.0	B	A
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			I certify the aircraft airframe, aircraft engi appliance identified above was repaired accordance with current regulations of the	and inspecte	or d in				t
			Administration with respect to the work p found to be airworthy and is approved to Certified Repair Station OG5R093N.	or return to se	y of			400 L 3	
			Authorized Signature	Mill!	=				the same of

Pg. 4

PARTS

### **MATERIAL REQUISITION**

11/10/04 ACFT NO. N777 ND WO NO. 1040620

## M\$35769-11  ### M\$35769-11  ### M\$35769-21  ### M\$35769-21  ### M\$35769-21  ### M\$35769-21  ### M\$35769-21  #### M\$35769-21  #### M\$35769-21  #### M\$35769-21  ###################################	AD To	AJC	Part Number C h48 109	Serial Number	Description	Quan.	мсс	Return	Batch #
M\$35769-11  M\$35769-11  ABBR 5/1635764-21  M\$67513-137  M\$67513-137  M\$67513-137  M\$67513-137  M\$67513-3-8B  M\$67513-3-8B  M\$67514-002  M\$676160	1	1700	0170109		oilf: 14v	1		Y/N	3246
M-674   Gask   12   Gask   12   Gask   12   Gask   12   Gask   12   Gask   12   Gask   12   Gask   12   Gask   12   Gask   12   Gask   12   Gask   13   Gask   14   Gask   1	1	1	M\$35 769-11			8			_
M-674  M\$29513-137  M\$29513-137  M\$29513-137  M\$29513-137  M\$1523-88  DBOILDO  Dattery(9w1t) 3  H\$1523-88  DBOILDO  Dattery(9w1t) 3  Spock Plug  J3836  Boce  J2836  284  J284	7		A 18 25 ME2C 710 A		gask.	1			2557
M\$29513-137   Orine   13   15   15   15   15   15   15   15	X		M-1071	×	gast-	1			2770
DROIGO  4 JON 12976-002  4 JON 12976-002  5 Fairi.  5 POCK Plug  6 13836  70066-001  8 B3-5-1  Filter  7 Ah Interv  7 DATE Interv  7 DOSY-001  6 Seat Lock  10 JON 50802-001  Well 10+	7	+	MISOGRA		gask	12			3763
DROIGO  4 JON 12976-002  4 JON 12976-002  5 Fairi.  5 POCK Plug  6 13836  70066-001  8 B3-5-1  Filter  7 Ah Interv  7 DATE Interv  7 DOSY-001  6 Seat Lock  10 JON 50802-001  Well 10+	V	+	11441633 60		o-ring	/			1856
# 501 12976-002	1	1	00000		gast	1			3767
Spork Plug  13836  13836  Roce  70066-001  Biter  At bottery  10094-001  100000000000000000000000000000000	"		120-		battery (9 volt)	3			
Spork Plug  13889  13880  13886  Roce  3 70066-001  B B3-5-1  At battery  10084-001  10004-001			1416-002		fairing	1	$\perp$		3768
13836   Boce	8 1	TIL	KM 385		Spock Plug	/			99075
13836   Roce   1	6	-			Bearing	ſ	1		333
8 B3-5-1 Filter (  At bottery battery 1  7 70084-001 de regld Seat Lock /  10 502 50802-001 well 1v+ 2	6	1				1			786
8   B3-5-1   Filter ( 7   Alt hattery   hattery   2   70084-001   de regid   Seat Lock   10   JDL   50802-001   well 10+ 2		1-1		*	Fuel Selector Value	1		Ţ	383
7 At battery battery 1 2 70084-001 de regid Seat Lock 1 10 JDL 50802-001 well nu+ 2	8	$\perp$			Filter	(			381
10 JDL 50802-001 well 10+ 2	7	$\perp$	At bottery		batten .	1		4	101
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	INSPECTION	N SUPPLEMENT AN	ID WORK ORD	ER			Pag	je 1 <b>o</b> f		
Odegard School of Aerospace Sci. University of North Dakota Grand Forks Intl. Airport	*****	1040816 DPS A	OBTAII INITIAL	N ALL S BE	FORE	FILING	<u>3</u>		,	qθ
Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N	Equip Code: Opened:	A 11/16/2004 14:58	R/A		ð	Date ss Insp <u>4</u>		11-	16	-04
Customer: EASE Acct#. 999	9-0000-471	Preliminary In							0	<u> </u>
N#: N777ND AoftType: SR20	Model: SR20	Ĺ	Bill Meter: 42	7.5	A/F	Tach: 4	27.5	Ir	rit <u>D</u>	\$
Part#         Serial#           SR20         1258           IO-360-ES6B         357498           PHC-J3YF-1RF         FP186	3	Description AIRFRAME ENGINE (CIRRUS PROPELLER	SR20) TELED	YNE (	;	TSO 430. 430. 430.	1	430 430 430 430	.1	
PD Problem / Discrepancy (PD)	ATA CA Con	rective Action (CA)		ATA	ACC	Date	Hrs	м тс	ech	Insp
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	appl acco	liance identified above wordance with current reg	as repaired and in ulations of the Fed to the work perfort	spected leral Avi ned and	in			4		-
	foun	d to be airworthy and is	approved for retuing	n to ser	vice.					
	Auth	nortzed Signature	Lal CO							5
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Odegard School of Aerospace Sc University of North Dakota Grand Forks Intl. Airport Mark Andrews Field	Med			BTAIN A ITIALS E		RE FILI	NG	() n	4
Grand Forks, ND 58202 Repair Station# OG5R092N Customer: EASE Acot#: 99	Оре	ened	1	9	Progre	Dat ess Insp	1	d. 11/24	104
N#: N777ND         AcftType: SR20           Part#         Seria           SR20         1258           IO-360-ES6B         35740           PHC-J3YF-1RF         FP18	98	del:	SR20 Bill Meter:  Description  AIRFRAME  ENGINE (CIRRUS SR20) TEI  PROPELLER		_	TS0 482 482 482	<u>)</u> <u>1</u> .2	Init 7 Total Time 482.2 482.2 482.2	740
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT Mech	Insp
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left door hould	5210	1	sinner door	5210	N	1/23	,1	sa	S)
nort recen			buling rotatal						
			position -						
		マ	handle (bent)		1			1	
e aircraft airframe, aircraft engine, propetti identified above was repaired and inspec- be with current regulations of the Federal / ation with respect to the work performed a re airworthy and is approved for return Repair Station OG5ROS2N	ed in Aviation		Removed + replace	ed .	N	1/24	1.0	047	
	4	1	9000 nandle		-				

Page 1 of \_\_\_\_

ATE 11/25/04

## PARTS S MATERIAL REQUISITION MATERIAL REQU ACFT NO. 1041026

MCC Return Y/N Batch # Quan. Description **Part Number Serial Number** MI PD # Handle

Odegard School of Aerospace Sci. University of North Dakota Grand Forks Intl. Airport	Mec	<b>n</b> :	1041095 SJC de: F		ALS B		RE FILI	<u>vg</u>			Sf.
Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N	-	p Co	ode: A	R/A	<b>1</b>	<b>E</b>	Date	e close	d: .	11/2:	104
Customer: EASE Acct#. 999	9-000	)-47°	1 Preliminary Ins	p	In F	rogre	ss Insp				
N#: N777ND AcftType: SR20	Mod	el: S	5R20	Bill Meter: 4	59.6	A/F	Tach:	459.6		Init	<u> </u>
Part#         Serial           SR20         1258           IO-360-ES6B         35749           PHC-J3YF-1RF         FP180	98		Description AIRFRAME ENGINE (CIRRUS PROPELLER	SR20) TELEI	DYNE	С	TSC 462 462 462	2	4	162.2 162.2 162.2 162.2	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	57	Mech	Insp
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Odegard School of Aerospa University of North Dakota Grand Forks Intl. Airport Mark Andrews Field	ce Sci.	Medi Shop	n: Co				AIN AL ALS B		RE FILIN	<u>vG</u>		Ý	4
Grand Forks, ND 58202 Repair Station# 0G5R092N		Oper		ode: A 12/2	/2004 14:15	Parts (opti)	M	0	Date	closed	<b>d</b> : .	12/2/0	4
Customer: EASE Acct	<del>#</del> : 9999	-0000	)-47 <sup>-</sup>	1	Preliminary In:	sp	In F	rogre	ess Insp				
N#: N777ND AcftType: Si	₹20	Mode	el: S	SR20		Bill Meter: 4	72.2	A/I	Tach:			Init <u>W</u>	1) [
Part# SR20 IO-360-ES6B PHC-J3YF-1RF	Serial# 1259 357498 FP1869	}		AIF	scription RFRAME GINE (CIRRUS OPELLER	SR20) TELE	DYNE	С	<u>TSO</u> 474. 474. 474.	e 8		1 Time 474.8 474.8 474.8	
PD Problem / Discrepancy	(PD)	ATA	CA		ve Action (CA)			ACC	Date	Hrs	DΤ	Mech	Insp
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#### Page 1 of INSPECTION SUPPLEMENT AND WORK ORDER OBTAIN ALL Odegard School of Aerospace Sci. WKO#. 1041198 INITIALS BEFORE FILING University of North Dakota CME Meoh: Grand Forks Intl. Airport Shop Code: F Mark Andrews Field Equip Code: A Grand Forks, ND 58202 Date closed: 12-2-0 12/2/2004 16:00 Parts (opt Opened: Repair Station# OG5R092N In Progress Insp <u>W</u> Preliminary Insp Acc##. 9999-0000-471 Customer: EASE A/F Tach: 472.2 Init Cac Bill Meter: 472.2 Model: SR20 N#: N777ND AoftType: SR20 Total Time TSO Description Seria## Part# 474.8 474.8 AIRFRAME 1259 **SR20** 474.8 ENGINE (CIRRUS SR20) TELEDYNE C 474.8 357498 10-360-ES6B 474.8 474.8 PROPELLER PHC-J3YF-1RF FP1969B Mech ACC Date Insp ATA ATA CA Corrective Action (CA) Problem / Discrepancy (PD) 05 12.2 05 3,4 Cone 20 2.0 t certify that this aircraft has been inspected in accordance with inspection, including, as applicable a mutine inspection of and detailed inspection and was determined to be in ain orthy condition, and is approved for return to service Certified Repair Station OG5R092N Authorized Signature Oral Man 12/2 72 32 Left bake Cme Stuck

								~		Page C
	INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page _	2_ of	2			-
Reg#: (N) <u> <sup>ファ</sup>フル</u> の			Work Order #:							
PD   Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
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		ap	eritify the alreraft airframe, aircraft engine, prop liance identified above was repaired and insp cordance with current regulations of the Federa	al Aviation		-	+	+		
		fo Co	ninistration with respect to the work pendund to be airworthy and is approved for eturn the tifled Repair Station OG5R092N.							
		Ai Di	thorized Signature	=		-	_	-	-	-

ACFT NO. NTON

**MATERIAL REQUISITION** 

\_w/o no. <u>104 1198</u>

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			INS	SPE(	CTION SUPPLEMENT AN	ND WORK OF	DER			Pa	age	1 of	_
Unit Gra Mai Gra Rep Cus	egard School of Aerospace versity of North Dakota and Forks Intl. Airport rk Andrews Field and Forks, ND 58202 pair Station# OG5R092N stomer: EASE Acct#	. 999	Mec Shop Equi Ope	h: p Co ip Co ned: 0-47	1000 000 000 000	R/A   North	In F	rogre	Date	close	d:	/3-5- Init <u>Z</u> e	_
Pai SR	<u>rt#</u> <u>\$</u> 20 1 360-ES6B 3	Serial 1258 35749 -P186	8		Description AIRFRAME ENGINE (CIRRUS PROPELLER	SR20) TELE	DYNE :	С	<u>TSO</u> 478. 478. 478.	0	4	1 Time 178.0 178.0 178.0	
	Problem / Discrepancy (F	(סי	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	ÞΤ	Mech	Insp
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2	could not open		52 30	1	Opened bargay	for Clean	1 3 h	N	12/5	,5	-	The	B

and labitated latch

Authorized Sig

I certify the aircraft airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration with respect to the work performed and found to be airworthy and is approved for return to perfice.

escently,

Odegard School of Aerospace Sci University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N  Customer: EASE Acc## 99:  N#: N777ND AcftType: SR20  Part# SR20 1258 10-360-ES6B 35749 PHC-J3YF-1RF FP18	Mecl Shop Equi Oper 99-0000 Mod	n: o Cod p Cod ned:		R/A Parts (opti) ssp Bill Meter: 49	In F	rogre	Date 55 Insp _ 750 495.1 486.1	closed 183.1 17	Init 12/11  Init 485.7  485.7  486.7	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	OT Med	Insp
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	-	-			+	+	-	+		

Page 1 of \_\_\_\_

## **MATERIAL REQUISITION**

	MI	Part Number	Serial Number	Description	Quan.	мсс	Return Y/N	Batch
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Odegard School of Aerospace Sci University of North Dakota			10117	AIN ALL	RE FILIN	VG		84
Grand Forks Intl. Airport Mark Andrews Field		p Co	de: F	<u> </u>				
Grand Forks, ND 58202 Repair Station# OG5R092N		ip Co ned:	ode: A R/A		Date	close	d: 1/10/	05
Customer: EASE Accl#. 99	88-000	0-47	1 Preliminary Insp	In Progre				
N#: N777ND AcftType: SR20	Mod	lel: \$	SR20 Bill Meter:	516.2 A/I	Tach: (	516.2	Init_	SER
Part#         Seria           SR20         1258           IO-360-ES6B         3574           PHC-J3YF-1RF         FP18	98		<u>Description</u> AIRFRAME ENGINE (CIRRUS SR20) TELE PROPELLER	EDYNE C	<u>TSO</u> 518.6 518.6	8 8	518.8 518.8 518.8 518.8	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA ACC	Date	Hrs	OT Mech	Insp
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\_\_\_\_ ACFT NO. \_\_\_

1/10/05

## **MATERIAL REQUISITION**

N 777N) WO NO. 1041757

PD	МІ	Part Number	Serial Number	Description	Quan.	мсс	Return Y/N	Batch #
	TEB	A7512-24V		nav light	/	100		2762
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Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202	WKO#: Mech: Shop Co Equip Co Opened:	ode: A	OBTAI INITIA R/A Parts (opti)			Date	<u>VG</u> : close	d: _	1/11,	84 165
Customer: EASE Acct#. 9999-	-0000-47	1 Preliminary In	sp	In F	rogre	ss Insp				_
N#:         N777ND         AcftType:         SR20           Par##         Serial#           SR20         1259           IO-360-ES6B         357498           PHC-J3YF-1RF         FP1868		Description AIRFRAME ENGINE (CIRRUS PROPELLER	Bill Meter: 51			Tach: 150 519. 519.	0 0	ē	Init	5B
-1	TA CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	듥	Mech	Insp
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1 Acft wouldn't start, 7 seperate crews		Started using procedures								
seperate crews		Sent V Bar	lu							
		A4P 2856702								
							1			
-										

Page 1 of \_\_\_\_

INSPECTION SUPPLEMENT	AND	WORK	ORDER

Page 1 of \_

Odegard School of Aerospace Sci. WKO#:

University of North Dakota

Grand Forks Intl. Airport Mark Andrews Field

Grand Forks, ND 58202 Repair Station# OG5R092N Mech:

SML

1041812

Shop Code: F

Equip Code: A

1/12/2005 13:31 Opened:

OBTAIN ALL

Parts (opti)

INITIALS BEFORE FILING

Date closed:

A/F Tach: 516.4

Customer: EASE

1258

Acct#: 9999-0000-471

Preliminary Insp

In Progress Insp.

Bill Meter: 516.4 Model: SR20 N#: N777ND AcftType: SR20 TSO **Total Time** Description Seria# Part# 519.0 519.0 **AIRFRAME** 

**SR20** 

ENGINE (CIRRUS SR20) TELEDYNE C

519.0

519.0

Init

357498 10-360-ES6B 519.0 519.0 FP1969B PROPELLER PHC-J3YF-1RF

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	ÞΤ	Mech	Insp
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January 18, 2005

Federal Aviation Administration Flight Standards District Office 1801 23rd Avenue North, Room 216 Fargo, North Dakota 58102

ATTN: Karmen Johnson

Dear Mr. Johnson;

The following aircraft has been placed on the cirrus Design Progressive Inspection Program, in accordance with FAR 91.409, paragraph(d). Effective 1/16/2005.

MAKE:

Cirrus

MODEL:

**SR20** 

**REG. #:** 

**N777ND** 

SERIAL #:

1258

**REGISTERED OWNER:** 

University of North Dakota

University Avenue & Tulane Drive

P.O. Box 9007

Grand Forks, ND 58202-9007

**CERTIFICATION DATE:** 

1/16/2005

TOTAL TIME:

516.4

For The University of North Dakota

CRS 0G5RO92N

1/16/2005 Date

proginsp.wps

Flight Support Services

John D. Odegard School of Aerospace Sciences Grand Forks International Airport Mark Andrews Field Grand Forks, ND 58202-9007 701/777-7900 • FAX 701/777-7929

Page 1 of \_

Odegard School of Aerospace Sci.

University of North Dakota

Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N

N# N777ND AcftType: SR20

WKO#:

1041810

CME Mech:

Shop Code: F Equip Code: A

Model: SR20

Opened: 1/12/2005 11:44 OBTAIN ALL

INITIALS BEFORE FILING

R/A Parts (opti)

Bill Meter: 516.4

Date closed: 116.

Customer: EASE

Acct#: 9999-0000-471

Preliminary Insp/M/B

In Progress Insp MKB

Part# **SR20** 

Serial#

Description

TSO 519.0

A/F Tach: 516.4

**Total Time** 519.0

10-360-ES6B

1258 357498 **AIRFRAME** 

ENGINE (CIRRUS SR20) TELEDYNE C

519.0

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PHC-J3YF-1RF

FP1868B

**PROPELLER** 

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-519.0

ď	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	ÞΤ	Mech	Insp
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		3				N	13	20		100	ms
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	l cartify th	at this	irer	sft has been inspected in accordance	a with	N	1/8	4.5	Ш	Che	ms
L	ANNVAL a routine i	3		inspection, including, as ap	olicabte	N	1/14	4.5		AL	ms.
		NA	. 2	and detailed inspection of NA and was determined	ned to	N	1/1	4.5	$\left  \cdot \right $	nz	ms
۲	- he in sing	hethy c	hadid	ion and is annowed for return to the			7-7				
	be in airw Co Authorized	ertified	Rep	ion, and is approved for return to se air Station OG5R092N	TVICE	N	1/14	4.0		He	msi
	C	ertified	Rep	air Station OG5R092N	rvice	2 2	1/14	4.0			_
	Authorized	ertified	Rep	air Station OG5R092N	=	2,2	1/14		<b>V</b>	Hr Str	ms. Ms.
	Authorized Date	ertified I Signa	Rep	air Station OG5R092N		2,2		6.0	/	Hr She	ms
	Authorized Date	ertified I Signa	Rep	air station OG5R092N  Milly (M) (M)  1:16:7203)  motalle D. Service Kit		22	1/16	6.0	/	Hr Str	ms
	Authorized Date	ertified I Signa	Rep	air station OG5R092N		22	1/16	6.0	/	Hr She	ms
	Authorized Date	ertified I Signa	Rep	Arstalle Service Kit		22	1/16	6.0	/	Hr She	ms
	Authorized Date	ertified I Signa	Rep	Anstall Semice Kit  AN 70084-001 TAW  SB 2 X-25-06 RZ		22	1/16	6.0	/	Hr She	ms

Reg#: (N) <u>777<i>N)</i></u>	INSPECT	TION S	SUPPLEMENT AND WORK ORDER  Work Order #: <u> OH RIO</u>		Page _	20	8	-		
PD Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
3 SB 2x-28-03 THEL	04	1	C/W SB By installing	0400	N	1/14	1.5		Conc	MSB
SELECTOR VALVE			C/12) SB By installing. Extension shoft sleeve							
dated 10-8-04	_			-						
SO HOUR INSPECTION	65 <sup>20</sup>	1	C/W 50 HOUR	05 20	N	1/14	.1		H	mst
SUE .			INSPECTION							
			1 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1							
	7,0	1	e e e e e e e e e e e e e e e e e e e	1/200	p2.2	3	"		12	1
58 8x-71-04 AB	04	/	C/W SB by installate	04	Ν	1/12	.8		PDH	msis
HINTERTATION KIT DUE			of winterization kit							
dated 2-12-2004										

(N) <u>777 ND</u>							f_8	-		-
			Work Order #: <u>/04/ 8/0</u>							•
Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Ins
SB 2x-71-10 012	04	/	Clw 582x-71-10 by	04	N	1/12	-6		POH	K.
BREATHER INSULATION	-									
Outed 10-8-04										
			No further action necessary							
INDUCTION AIR THTERS	05 20	_	RENOVED & REPLACED	71 60	N	1/16	.3	入	And	MSB
AVE .			AR THTER AL							
			NEM DUE @ 724.7							
LOWER CONLING RUBBEL	7/10	/	REMOVED & REINSTALLED	1/10	N	1/14	.4		ful	mst
SEAL BY NOSE STRUT		1	56AL	7.0	1			- 3		
TORN										
HART ON ORDSE				1						
										_
	SB 2X-71-10 01L  BREATHER INSULATION  Dated 10-8-04  INDUCTION AIR FIXTERS  AVE  LOWER CONLING AVBBER  SEAL BY NOSE STRUT	SB 2X-71-10 01L  BREATHER INSULATION  Dated 10-8-04  INDUSTRIA AIR FIFTERS  20  AVE  LOWER CONLING RUBBER  7110  35EAL BY NOSE STRUT  10RN	SB 24-71-10 OIL  BREATHER INSULATION  Dated 10-8-04  INDUCTION AIR TISTERS  20 1  AVE  LOWER CONLING AUBBER  710 1  SEAL BY NOSE STRUT  10PN	SB 28-71-10 OIL  BREATHER INSULATION  Dated 10-8-04  Installation of insulating  Slean on first bicather hase.  No further action necessary  INSULTION AIR TIMERS  OS 20   ALMONES & ACMACED  AR THERE  NEXT ONE D THEFT  SEAL BY NOSE STRUT  TORN	Sh 2x-71-10 OIL  OH  OH  OH  OH  OH  OH  OH  OH  OH  O	Sh 2x-71-10 01x 04 00 1 Clw sp 2x - 71-10 by 04 N  MEATHER INSULATION installation of insulating  Dated 10-8-04 show on find bicather hose.  No further action necessary  INDUCTION AIR TITTERS 05 20 1 REMOVED & ACCURACED 7160 N  AUR TUTTE 116 11 NEW TITTERS  DIVIER CONLING AUBBER 7110 1 REMOVED & ACINSTALLO 710 N  SEAL BY NOSE STRUT 56AL  10RN	SR 2X-71-10 OIL  SREATHER INSULATION  Dated 10-8-04  Installation of insulating  Slean on find bicather lose.  No further action necessary  INDUCTION AIR TITLES  OS 20   REMOVED & REMACED  THOU THE DISTRICT  DUES CONUNC AUBBER  7/10   REMOVED & REMOVED 7/10 N 1/14  SEAL BY MOSE STRUT  10RN	SR 28-71-10 014  OF BO 1 C/W SR 2X - 71-10 by OF DO N 1/2 -6  BREATHER INSULATION  installation of insulating  Dates 10-8-04  Slean on find bicather hase.  No further action necessary  INDUCTION AIR TITTERS  OF 20 1 REMOVED & REMAKED 71 60 N 1/16 .3  AVE NEW DIESTANDO N 1/14 .4  SEAL BY NOSE STRUT  JORN  ON 1/10 .4  SEAL BY NOSE STRUT  JORN	SB 28-71-10 OIL  OF BO 1 C/W SB 2X-71-10 by OF N 1/2 .6  AREATHER INSUMMEN  installation of insulating  Dated 10-8-04  Seen on find becalhor hise.  No further action necessary  INSUCTION AIR TISTERS  OF 20 1 REMOVED & REMAKED 7160 N 1/16 .3 X  AVE  ARE TURBL  NEST NUE 27-24-7  SEAL BY NOSE STRUT  10RN  10RN  10RN  10 1 REMOVED & REMOVED ALINSTALLO  110 1 REMOVED & REMOVED ALINSTALLO  10RN  10RN  10RN	SB 28-71-10 OIL  OY 00 1 C/W SR 2X - 71-10 by O4 N 1/2 -6 POH  MENTHEL INSULATION  installation of insulating  Dated 10-8-04  Stewn on find breather hase.  No further action necessary  INDUCTION AIR TIMELS  OS 20 1 REMOVED & REMAKED 716 N 1/16 3 X AM  AR THERE  NOTE 718-7  DUER CONLINE RUBBER  710 1 REMOVED & REMSTANCED 710 N 1/14 4 AM  SEAL BY NOSE STRUT  10RN

		INSPECT	ION S	UPPLEMENT AND WORK ORDER	-	Page .	40	f O	•		1
g#:	(N) 777ND			Work Order #:				0			
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Ins
9	LANDING LIGHT LENS	33 40	/	Removed ! Replaced	33 40	N	//4	.5		an	ms
	COVER CRACKED IN			lance							
	SEVERAL PLACES			u tuk mala sa sé							
	PART ON OPDER	34	1	2000	tiy.	13	4	2		14	
0	A MIL NUMBERTE	3240	1	REINSTALLEN NO	3240	N	1/6	.Z	Х	And	ms
	FELLING OFF OF			×-							
	INNER SIDE OF STEVI										
		2.5	1	116-11-12-12-12	73		117			- * *	
//	M' MUG TIRE WEALING	32 40	1	Rotated lett	32 40	N	13	.5		12	ms
	ON INBOARD SIDE			Rotated left Main time, torused to specs and satelied							
		-		to specs and							
				Satefied							
								11,2			

		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page	50	of O			
Reg#	:(N) 777 ND			Work Order #: 1041810				0	•		
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
12	AT MUG TIPE MORN	32 40	1	Rotated right	00	N	<del>-</del>	.5			msB
	ON INBOARD SIDE			Main Tire, torqued							
				Main Tire, torqued to specs and soldied							
13	TURN & BANIL INDICATOR	34 20	/	REMOVES & REPUXES	34 20	N	1/13	-3	¥	K	msB
	BATTERIES SUE REPLACEME		X	3 EXCH 9 V BATTELIES							
				Next due 1-31-06							
14	PRIMED HINE CHAFFING	73	/	ADVUSTED PRIMER	73 10	N	1/14	.2		fuch	ms/s
	ON BAFFLE SPRING ON	23 60	j	LINE			ē.			142	y 100
	H SIDE OF ENGLISE										

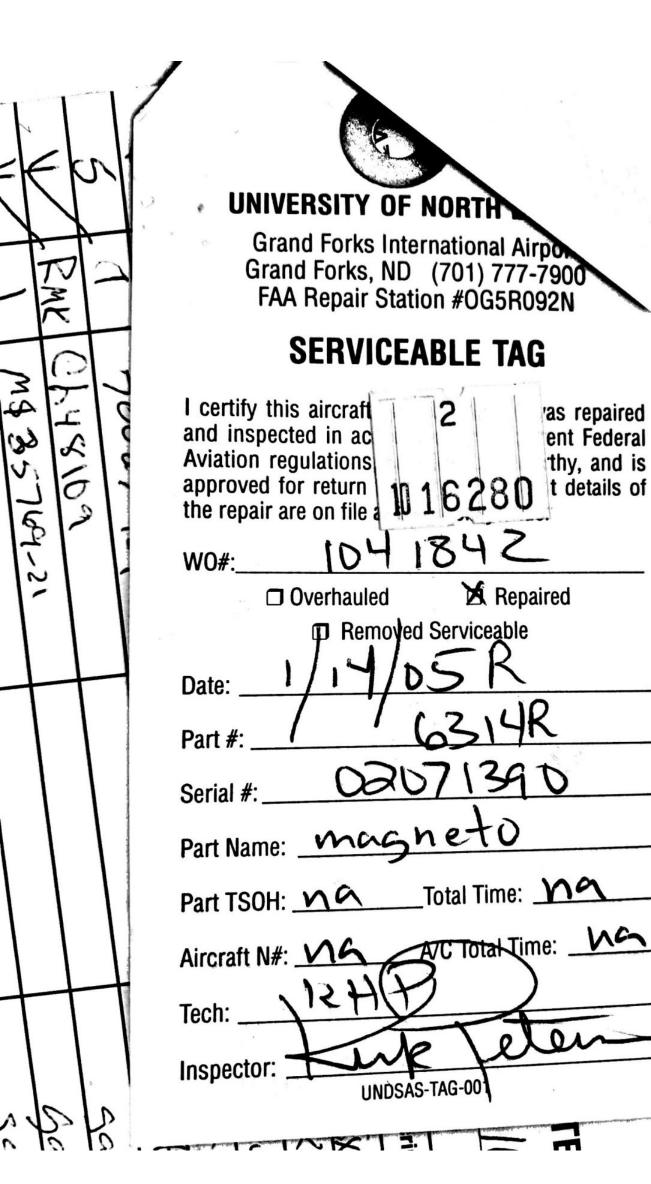
		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page .	60	of g	_		\
Reg#	:(N) 777 ND			Work Order #: 104   810				0			
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
15	NING TO BOOM TAIRING	5350	1	SECURED MAIRING TO	5350	N	1/14	1.0		1/2	MSB
	ON LEFT DELIMINATONG			<i>8004</i>	-				_		
16	58 28 95 08 RT UPDATING	0400	/	UPDATED 10 03/31/08	oya	N	1/10	1.0	~	ful	msis
	THE CAPS REGING LINE								,		
	OHIELG	d, r	1								
	BATED DEC 11, 2009										
17	ELT INSP	25 60	1	COMPLETED YEARLY EST	25 60	N	1/16	. Z	×	M	msB
				INSP MEN DE D OVSIDE							
				This ELT was inspected in accorded manufacturer's instruction or FMA in found to meet the requirements of F	AR 91.207	d).	,				
				ELT Model <u>F-01</u> ELT S ELT Test Date <u>01-16-2005</u>	s/N # <u>04</u> 2	100					
				Authorized Signature May Miller Certified Repairs	Station OG5	R092N	r				

		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page _	7.	f_8			
leg#	: (N) <u>777 NO</u>			Work Order #:							•
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
18	11 MAG REMOVED FOR	7410	/	REINSTALLED AFTER	140	H	1/14	,8		Port	msis
	SOO HOUR INSPECTION			INSPECTION, TIMBO 10			<u> </u>				
	PN 6314K			ENGINE. ORS OF 600D							
	SN 02071389	-				Sa.					
15	RT MAG REMOVED FOR	7410	/	KEINSTALLED AFTER	40	T	1/14	, 8		fub.	mst:
	RT MAG REMOVED FOR 500 HOUR INSPECTION			INSPECTION, TIMED TO							_
	PN 634K			INSPECTION, TIMED TO ENGINE, ORS CL 6000	ļ						
	SN 03071390				-						
		-			-						
				,							
-											

		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page .	7 0	f_8	-	_	`
	:(N) <u>777 ND</u>			Work Order #: <u>104 1810</u>							
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
PD	Inspector time	05 60	1	Inspected	05		1-16			msp	msB
				I certify the aircraft airframe, aircraft engine appliance identified above was repaired and accordance with current regulations of the Administration with respect to the work perf	TINSDECTED	ı in					
				found to be airworthy and is approved for re Certified Repair Station OG5R092N.	turn to ser	vice.					
				Authorized Signature Mily 3 dry		=					
1			general Const								
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			r								Y
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# **MATERIAL REQUISITION**

/ /	FrE	\     4		University of North D Grand Forks, North Dake	akota ota 58202	<b>MATERIAL RE</b> w/o no <i>104181(</i>		ITIO	N	
	PD	N	AI	Part Number	Serial Number	Description	Quan.	мсс	Return Y/N	Batch #
}	3/	A	PK	700-001		Valve Exten Ket	1			3891)
	8	Ru		70084-001	3	seat Kit	2			3877
	6	b	ŁΚ	70092-001 70027-101		Sleevo Kit	T i			4041
	5	1				winter Kit				3991
	¥/	1 RA	15			filter	j			3892
	$\checkmark$	$\vdash$	$\dashv$	M\$35769-21		gask	1		1	2776
100	¥/,	1	$\perp$	M-674	A	Gask	12 B	-		3 838
	Y,	H	4	NA\$1523-8B		Scal	/			3767
	4	1	+	DB0160	41	battery quolt	3			and the same of th
	5	AX	_	94 Primer 1/2	\$	Primer	1			4068
13	5	1	+	50641-035U		tape	'1			402
19		1	+	€ 14526-003		lens	I			4670
V	_	<u>Rmi</u>	4	33.5.1		Filter			Ć	3940
1	7	15	$\perp$	BA24		filter	1			4069
VI	4	EC.		LW421081		Gasket	七乙		2	333
14	ZA		3	0803-001		wellnows	2			3394
1	V		ی	100-5080		wallnuts	4		-	3937
			$\perp$			•			1	
	-									



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$\mathbb{I}^{\mathcal{A}}$	UNIVERSITY OF Managinal Properties
7-1	Grand Forks International Amount of the Grand Forks, ND (701) 777-7900 Crand Forks, ND (701) 777-7900 2N
	FAA Repair 2
H	OFDVIII I I
	10 1 C 2 / 9 c renaired
12 3	I certify this aircraft III I Open I to I s repaired and inspected in accordance with current Federal and inspected in accordance with current y, and is
14%) 200	Aviation regulations, a corvice Pertinent details of
12007-1	approved for return to agency under
3 3	1041893
21 H	WO#: Repaired
	Removed Serviceable
	Data: 1/14/05
H	Date:
111	Part #:
1 1 1	Serial ".
1 1	Part Name:
1 1	Part Name:
1 1	Part TSUH:
1 1	Aircraft N#: MA A/C Total Time: MA
1 1	Tech:
HT	le le le le le le le le le le le le le l
111	Inspector: UNDSAS-TAG-001
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			5 65								
	IN	SPE	CTION SUPPLEMENT AN	ID WORK OF	DER			Pa	age 1	of	
Odegard School of Aerospace Sci University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N	Med Sho Equ	oh: op Co	1042201 JEB ode: F ode: A 1/28/2005 7:43		La.		<i>E FILIN</i>	(G closed	d: <u>/</u>	/28	105
Customer: EASE Acct# 999	88-000	0-47	1 Preliminary In:	sp	U <sub>In F</sub>	rogre	ss Insp .				-
N#: N777ND AoftType: SR20	Mod	lel:	SR20	Bill Meter: 6	36.6	A/F	Tach:	536.6		Init_	Les
Part#         Serial           SR20         1258           IO-360-ES6B         35749           PHC-J3YF-1RF         FP186	98		Description AIRFRAME ENGINE (CIRRUS PROPELLER	SR20) TELE	DYNE	С	TSO 539. 539. 539.	2 2	53 53	Time 39.2 39.2 39.2	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	DT	Mech	Insp
1 Oil press	71 70	,	Removed	winter-	71	N	# 28	.5			Jek
wolow, oil			ization pl	utes					Ц		
temp high			from con	11.					Ц		
CH T450°.			Jumple Ale	when					Ц		
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Ur	degard School of Aerospace Sc niversity of North Dakota rand Forks Intl. Airport ark Andrews Field	Med Sho	h: pCc	1042088 MRS ode: F	INITIA	ALS B		E FIUN	(CO. CO. CO. CO. CO. CO. CO. CO. CO. CO.		84
	rand Forks, ND 58202 epair Station# 0G5R092N		ip Ci ned:	ode: A 1/24/2005 15:48	R/A Parts (opti)	1		Date	closed	1/24	105
Cı	ustomer: EASE Acct#. 99	99-000	0-47	1 Preliminary In:	5P	In F	rogre	ss Insp .			
N	* N777ND AoftType: SR20	Mod	lel:	SR20	Bill Meter: 5	26.1	A/F	Tach:	51 <b>6</b> .4	Init	
SF	Seria R20 1258			Description AIRFRAME			_	TSO 619.	0	519.0	
	-360-ES6B 35741 HC-J3YF-1RF FP18			ENGINE (CIRRUS PROPELLER	SR20) TELE	DYNE	C	519. 519.		519.0 519.0	
PC	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	OT Mech	Insp
1	Brought U	p	1	n Error				by	0.0	mno	4
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		o 8					10F-0			(B) (186)	

Page 1 of \_

	IN	SPE	CTION SUPPLEMENT AN	ND WORK OF	RDER			Pag	ge 1 of	1_
Onegard School of Aerospace Sci University of North Dakota Grand Forks Intl. Airport	Med	h:	1042050 KHP ide: A		ALS B	Contract of the contract of th	RE FILIN	√G		98
Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N	Equ	•	ode: A	R/A	S	10	Date	closed	1/25	05
Customer: EASE Acct#. 99	99-000	0-47	1 Preliminary In	sp	In F	rogre	ess Insp .		/ /	
N# N777ND AcfiType: SR20	Mod	lel: :	SR20	Bill Meter: 5	26.1	A/F	Tach:	526.1	Init <u>K</u>	HD.
Part# Seria	<u>₩</u>		Description				<u>TSO</u> 528.		<u>528.7</u>	
SR20 1258 10-360-ES6B 35749	00		AIRFRAME ENGINE (CIRRUS	CD20\ TELE		C	528. 528.		528.7	
PHC-J3YF-1RF FP18			PROPELLER	SK20) TELE	DTIVE		528.		528.7	
PD Problem / Discrepancy (PD)	ATA		Corrective Action (CA)		ATA	ACC	Date	Hrs	OT Mech	Insp
1 Push to talk	3/0	1	confirmed	Switch	23/10	4	1/23	.5	KAP	
switch right		r.	15 intermit		23/10	N	1/25	.5	KHP	
side Inop			ordered pa	rt /				-		
•		2	Replaced swi	tch	i					
	_		tests good.							
ture té	ter	3-6					* 1			
A07 477	78	2	584	-	369			12		
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TE 1/25/05

\_ACFT NO. <u>DTTTUB</u>\_

# **MATERIAL REQUISITION**

W/O NO. ##### 1042050

PD /	V MO	Part Number	Serial Number	Description	Quan.	MCC	Return Y/N	
W	田	Part Number 56339 - 001		PTTSwitch	11	_		4100
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Page 1 of

Odegard School of Aerospace Sci. WKO#:

Mech:

1042103

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OBTAIN ALL

INITIALS BEFORE FILING

University of North Dakota

Grand Forks Intl. Airport Mark Andrews Field

Shop Code: F

Model: SR20

Date closed:

Grand Forks, ND 58202 Repair Station# OG5R092N

N#: N777ND AoftType: SR20

Equip Code: A Opened:

1/25/2005 10:22

Customer: EASE

Acc#. 9999-0000-471

Preliminary Insp MM3

In Progress Insp MKYS

A/F Tach: 526.1 Bill Meter: 626.1

Part#

Serial#

Description

TSO

Total Time

**SR20** 

1258

**AIRFRAME** 

528.7

528.7

10-360-ES6B

357498

ENGINE (CIRRUS SR20) TELEDYNE C

528.7

528.7

PHC-J3YF-1RF

FP1868B

**PROPELLER** 

529.7

629.7

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	ÞΤ	Mech	Insp
_/	oil temp gauge	79 30	1	Inspected transmit	79	N	1/25	1.0		DHT	msr.
	was Fluctuating.			+ wiving, No defec	5_						
	,			noted. Ran A/c -							
		1 7		no oil temp							
				abnormalities notes.					L		
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	4						`.		L		
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				I certify the aircraft airframe, aircraft eng appliance identified above was repaired accordance with current regulations of the	and insp	ected in	al l				
				Administration with respect to the work found to be airworthy and is approved for Certified Repair Station OG5R092N.	erforme	dand					
				Authorized Signature Why 3 kgy							
-				£ 1							

	INS	PE(	TION SUPPLEMENT AN	ID WORK OF	RDER			P	age	1 of	
Odegard School of Aerospace Sci. Uni <del>versity o</del> f North Dakota Grand Forks Intl. Airport	Mech	1:	1042407 MSB		AIN AL ALS B		RE FILII	<u>vg</u>			84
Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N		Co	de: F ode: A 2/4/2005 15:49	R/A Parts (opti	8		Date	e close	ed: ,	2-4	•
Customer: EASE Acct#. 999	99-0000	<b>-</b> 47	1 Preliminary In:	sp '	In F	rogre	ess Insp				
N#: N777ND AcftType: SR20	Mode	el: (	5R20	Bill Meter: 5	49.6	Α/I	Tach:	549.6		Init <u>/</u>	nsb
Part#         Serial           SR20         1258           10-360-ES6B         35746           PHC-J3YF-1RF         FP186	90		Description AIRFRAME ENGINE (CIRRUS PROPELLER	SR20) TELE	DYNE	С	552 562 562	.2	;	552.2 552.2 552.2	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	рт	Mech	Insp
1 Aircraft nequires Service	05 50	1	Inspected per SA,	No defects	0\$ 50	N	2-4	.3	П	MS	,
Advisor \$A04-09	1 112		noted		in the				Ц		
Advisory \$A04-09  dated Dec 7, 2004  Inspection	a (		Muly Bedigh	- A+P5	0710	966	,	1,3 %	Ц		
Inspection		. 7.			20 No.		18.9		Ц	3.7	
	12-14										
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	ED ME	H)									-
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Page 1 of \_\_\_\_



# Owner Service Advisory SA 04-09

07 Dec 2004

Models SR20 and SR22

TO: Owners, Operators, and Service Centers

SUBJECT: Aileron Hinge Bearing Migration - Immediate Action

EFFECTIVITY: Cirrus Design SR20 serial numbers 20-1149 through 20-1473

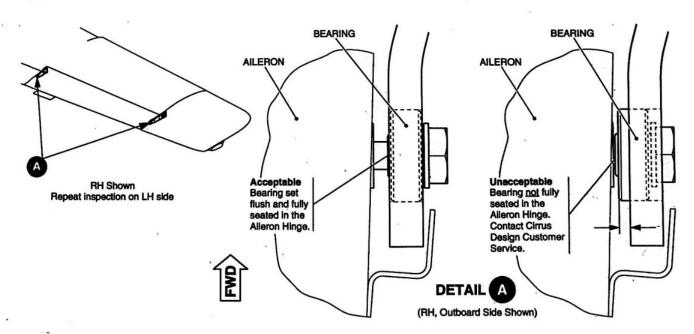
Cirrus Design SR22 serial numbers 22-0002 through 22-1202

Cirrus Design recently found a condition where the LH and RH aileron hinge bearings on both the inboard and outboard sides may be excessively loaded. This condition may result in the aileron hinge bearing(s) migrating out of their staked position(s) which could cause the aileron control system to jam.

To our knowledge, an event of this type has not occurred on an airplane in over 486,000 fleet hours. However, since a condition where the bearing is not contained in the alleron hinge would alter the flying characteristics of the airplane, Cirrus Design requests that operators take immediate action to assure that aileron hinge bearings are properly retained.

Cirrus operators must visually inspect the aileron hinge bearings to assure that the bearings are fully seated in the aileron hinge. A properly seated bearing is indicated when the bearing face is flush with the aileron hinge surface. The illustration below depicts both acceptable and unacceptable installations. If a bearing is found to protrude from the aileron hinge surface, call Cirrus Design Customer Service (1-800-279-4322) for disposition. This visual inspection must be accomplished before every flight until the Service Bulletin is accomplished.

A Mandatory Service Bulletin is under development which will correct this condition. Additionally, Cirrus Design expects that the FAA will issue an Airworthiness Directive to require compliance with this Service Bulletin.



**Cirrus Design Corporation** 4515 Taylor Circle Duluth, Minnesota 55811 PH (218) 727-2737

**SA 04-09** 1 of 1

Cirrus Design Corporation cannot be responsible for the quality of work performed by others while fulfilling the requirements of any service bulletin. Procedures specified in service bulletins must be accomplished using industry standard maintenance practices and applicable government regulations.

Odegard School of Aerospace Sc University of North Dakota Grand Forks Intl. Airport Mark Andrews Field	Mecl Shop	h: o Co	1042492 DPS ode: A	INIT	TAIN A TALS E		RE FILI	<u>NG</u>			84
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## **MATERIAL REQUISITION**

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Customer: EASE Acc#. 999	19-0000-	471	Preliminary In:							=
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ACFT NO. N 777ND W/O NO. 1042608

Odegard School of Aerospace Sci. WKO#:

University of North Dakota

Grand Forks Intl. Airport Mark Andrews Field

Grand Forks, ND 58202 Repair Station# OG5R092N Mech:

1042646

BSS

Shop Code: A

Equip Code: A

Opened:

2/12/2005 9:16

Parts (opti

Date closed:

Customer: EASE

Acc##. 9999-0000-471

Preliminary Inst

In Progress Insp

Init BSS

N#: N777ND AoftType: SR20

Model: SR20

Bill Meter: 563.8

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INITIALS BEFORE FILING

A/F Tach: 563.8

Part# **SR20**  Seria# 1258

Description **AIRFRAME** 

566.4 566.4

TSO.

566.4 566.4

Total Time

10-360-ES6B PHC-J3YF-1RF 357498 FP1868B ENGINE (CIRRUS SR20) TELEDYNE C **PROPELLER** 

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	IndP.			All setting are correct.		3.					
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Odegard School of Aerospace Sci.

WKO#:

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University of North Dakota

Mech:

INITIALS BEFORE FILING

Grand Forks Intl. Airport Mark Andrews Field

Shop Code: F

**JDR** 

Grand Forks, ND 58202 Repair Station# OG5R092N Equip Code: A Opened:

2/14/2005 10:26

Parts (opti)

Date closed: 2-19-2

Customer: EASE

Acc#: 9999-0000-471

Preliminary Insp

Part#

N#: N777ND AcftType: SR20

Model: SR20

Bill Meter: 569.7 A/F Tach: 571.2 Init Ju

Serial#

Description

TSO

**Total Time** 

**SR20** 

**AIRFRAME** 

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10-360-ES6B

1258 357498

ENGINE (CIRRUS SR20) TELEDYNE C

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PHC-J3YF-1RF

FP1869B

PROPELLER

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University of North Dakota
Grand Forks, North Dakota 58202

DATE <u>014/05</u> ACFT NO. <u>N 777WD</u> W/O NO. <u>1040699</u>

## **MATERIAL REQUISITION**

PD MI Part Number Serial Number Description Quan. MCC Return Batch # Ch 48109

Oil Filter 1 3892

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Odegard School of Aerospace Sc University of North Dakota	i. WKO#. Mech:	1042908 KHP	OBTAIN I	<u>ALL</u> BEFORE FILI	NG	٧.
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Mark Andrews Field Grand Forks, ND 58202	Equip Co		R/A SVI	ATMAC	0 1	\ <u></u>
Repair Station# OG5R092N	Opened:		Paris (opti)	Date	e clozed: 2	21/05
Customer: EASE Acc##. 99	399-0000-47	1 Preliminary In	spy / In	Progress Inso	<i>y</i>	
N#: N777ND AcftType: SR20	Model: 5	SR20	Bill Meter: 606.3	A/F Tach:	606.3 Init	KH P
Part# Seria	±#	Description		TSC	<u>Total Time</u>	2
SR20 1258	1	AIRFRAME		608	.9 609.9	
IO-360-ES6B 3574	98	ENGINE (CIRRUS	SR20) TELEDYNE	EC 608	.9 608.9	
PHC-J3YF-1RF FP18	8 <b>6</b> 8B	PROPELLER		608	.9 608.9	
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l certify the aircraft airframe, aircra appliance identified above was rej	paired and insp	ected in				
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University of North Dakota

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INITIALS BEFORE FILING

Grand Forks Intl. Airport Mark Andrews Field

Grand Forks, ND 58202

Shop Code: W Equip Code: A

Model: SR20

Date closed:

Repair Station# OG5R092N

N#: N777ND AoftType: SR20

Opened:

2/23/2005 17:48

Parts (opti)

Customer: EASE

Acct#. 9999-0000-471

Preliminary Insp

Init NRC

Part#

Bill Meter: 615.7

A/F Tach: 617.1

Description

TSO

Total Time

SR20

Serial#

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10-360-ES6B

1258 357498 AIRFRAME ENGINE (CIRRUS SR20) TELEDYNE C

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PHC-J3YF-1RF

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Odegard School of Aerospace Sci. WKO# 1043027 OBTAIN ALL INITIALS BEFORE FILING University of North Dakota JDR Mech: Grand Forks Intl. Airport Shop Code: F Mark Andrews Field Equip Code: A Grand Forks, ND 58202 Parts (opt Date closed: 2-25-2005 Opened: 2/24/2005 7:10 Repair Station# OG5R092N Preliminary Insp Customer: EASE Acc##. 9999-0000-471 A/F Tach: 617.1 N#: N777ND AoftType: SR20 Bill Meter: 617.1 Model: SR20 TSO Part# Serial# Description SR20 1258 AIRFRAME 619.7 10-360-ES6B 357498 ENGINE (CIRRUS SR20) TELEDYNE C 619.7 PHC-J3YF-1RF FP1969B PROPELLER 619.7

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University of North Dakota Grand Forks, North Dakota 58202

2/24/05 ACFT NO. N777ND

# MATERIAL REQUISITION

ME-	ACIT NO	J	W/ONG IALLS	-40151110	Ν	
MI	Part Number	Sarial N	W/O NO. 10430	27		
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Odegard School of Aerospace Sci. University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 Repair Statior# OG5R092N	WKO#: Mech: Shop Code: Equip Code: Opened:			N <sub>M</sub>		RE FILI		ed: _	2/2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Customer: EASE Acct#. 999	9-0000-471	Preliminary Ir	nsp	Uni	Progre	ess Insp				
N#: N777ND AcftType: SR20	Model: SR2	0	Bill Meter: 6	21.2	ΑΛ	F Tach:	621.2		Init_	$\mathcal{B}$
Part#         Serial           SR20         1258           IO-360-ES6B         35749           PHC-J3YF-1RF         FP186	8	Description AIRFRAME ENGINE (CIRRUS PROPELLER	SR20) TELE	DYNE	С	623. 623. 623.	.9 .9	6	Time 23.9 23.9 23.9	
PD Problem / Discrepancy (PD)	ATA CA Co	rrective Action (CA)		ATA	ACC	Date	Hrs	ÞΤ	Mech	Insp
1 Assempting to start  we couldn't get it  to turn over	7200 1 Re	moved, char	ged, attery,	2400	(id	2/28	,6		B	
to twu over		terted engi ormolly. N	ne lo							
	fi n	orther defec	fs starting							
		Seet F Bal 1934656107	ker							
	Ag	1934656107	4							
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Page 1 of \_\_/\_

Page 1 of

Odegard School of Aerospace Sci.

1043285

OBTAIN ALL

INITIALS BEFORE FILING

University of North Dakota Grand Forks Intl. Airport

WKO#: Mech:

DHT

Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N

N#: N777ND AoftType: SR20

Shop Code: F Equip Code: A

Parts (opti)

Date closed

Customer: EASE

Acc##. 9999-0000-471

Opened:

3/4/2005 7:02

In Progress Insp

Model: SR20

Preliminary Insp

Bill Meter: 639.7 A/F Tach: 639.7

Part#

Description

**SR20** 

Seria##

AIRFRAME

TSO 642.4 **Total Time** 642.4

10-360-ES6B

1258 357498

ENGINE (CIRRUS SR20) TELEDYNE C

642.4

642.4

PHC-J3YF-1RF

FP1868B

PROPELLER

642.4

642.4

Q	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	рт	Mech	Insp
,	The lost side	52 10	1	Removed interior	52 10	N	3/4	, 7		DHT	Ø.
	door hundle is			door trim, replaced					3		
The second second	broken, when the		Tr.	two broken roll							
Section of the	handle is moved,			two broken roll inlatch pins, reinstalled					L		
	the pins that latel			four trim, Functiona	_						
	the door shot			check of					Ц		
	Sout It is				Tier :				Ц		
	force in the										
	lacked position.							. *			
	,										
_		-									
				I certify the aircraft airframe, aircraft engi appliance identified above was repaired a accordance with current regulations of the	nd inspe	cted in					
_				Administration with respect to the work p found to be airworthy and is approved for Certified Repair Station OG55092N.	erformed	and/		,			
_				Authorized Signature & Man	Mel						
									П		

Odegard School of Aerospace Sc University of North Dakota	i. WKO#: Mech:	1043401 KHP		LS BEFO	RE FILI	VG	X	No.
Grand Forks Intl. Airport	Shop Co	ode: A	41	1				1
Mark Andrews Field Grand Forks, ND 58202	Equip C	ode: A	R/A	A ATMA			-/0	10-
Repair Station# OG5R092N	Opened	3/8/2005 12:30	Parts (opti)	THE	Date	closed:	3/8/	05
Customer: EASE Acct#. 99	99-0000-47	1 Preliminary I	ueb KHD	U In Prog	ress Insp	KAL	>' /	
N#: N777ND AoftType: SR20	Model:	SR20	Bill Meter: 66	2.0 A	√F Taoh:	662.0	Init 1	AP?
Part# Seria	₩	Description			TSO	To	ital Time	
SR20 1258		AIRFRAME			664	.7	664.7	
IO-360-ES6B 3574	98	ENGINE (CIRRU	S SR20) TELEC	YNE C	664	.7	664.7	
PHC-J3YF-1RF FP18	868B	PROPELLER			664	.7	664.7	
	1	Fa		ATA ACC	Date	Hrs	T Mech	Insp
PD Problem / Discrepancy (PD)	ATA CA	Corrective Action (CA	,	AIA ACI	- Jan	1"3	-	m sp
LHSI has gyro	34/40 1	Powered up HS	) System	40 N	3/8	1.5	BSS	THY.
invalid and		Flag ques aw	ayand		X			
all into red		information						
on display		30 minutes a	with ,					
- on display		remoted DG	and.					
	<del>                                     </del>		connectur		-	$\vdash$	+	
7,		COMPASS YOS		od				
2 AP Will not	22/10/1	Encased an		2.10 N	3/8	.3	Bes	XHP
disconnect.		cutuolat n	anu		/			
		autopilot n Times-Frum	1251					
					1	$\vdash$	1	
		and right s	ide		-			
		no problem	Found					
		,						
	appliar	the aircraft airframe, aircraft ce identified above was repa	ired and inspected	in				
	Admin found	arrice with current regulations stration with respect to the w o be airworthy and is approv	ork performed and ed for return to serv		14			
	Certific	zed Signature	N A					
	70810	3	- 1	- 0	T			1

Page 1 of

		INS	PEC	TION SUPPLEMENT AND WORK OR	DER		. *	Pa	ge '	1 of	_
Univ	gard School of Aerospace Sci. ersity of North Dakota nd Forks Intl. Airport	Mech	n:	CME INITIA	ALS BE	FORE	FILIN	<u>iG</u>		,	84
Mar	k Andrews Field nd Forks, ND 58202 air Station# OG5R092N		p Ca	de: F de: A		0	Date ss Insp	1	: <u> </u>	16-05	
Cus	tomer: EASE Acc#. 999			D:111-1 9:			Tach: (			Init <u>C</u>	== n=
Par SR2	4050	# 98	el: \$	Description AIRFRAME ENGINE (CIRRUS SR20) TELE PROPELLER		W. 1889	TSO 670. 670. 670.	. <u>T</u> 9	6	Time 370.9 370.9 370.9	
討	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Mech	Insp
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	Aue		2	inspection F.A.W		J			Н		_
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2	Rubber cover	71.0	1	Replaced	71-10	W	3/16	.1	1	Coré	R
_	on botten of love								-		
	coul for	.***							1		
-		4-5									
						-					

certify the aircraft airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration with respect to the work performed and found to be airworthy and is approved for return to service certified Repair Station OG5R092N.

Authorized Signature 2 Date 3 -16 -05

### **MATERIAL REQUISITION**

E_	3	1/16/05 ACFT NO	1. <u>N 777ND</u>	W/O NO/0435	75			
2 L	C +0							
PD	MI	Part Number	Serial Number	Description	Quan.	MCC	Return Y/N	Batch #
X	CME	CH48109 -OHC 15W50 14559-001		oil filter	/			3246
X	CME	OH 15W50	× ,	014	8		-	_
8	CME	14529-001		Secri	1	Ш		4076
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Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N		Code: F Code: A d: 3/17/2005 13:37	R/A 00 Parts (opti)	Date	closed: 3/17/05
Customer: EASE Acct#. 99	99-0000-4	71 Preliminary I	nsp In	Progress Insp _	
N#: N777ND AoftType: SR20	Model:	SR20	Bill Meter: 871.8	A/F Taoh: 6	371.8 Init
Part#         Seria           SR20         1258           IO-360-ES6B         3574           PHC-J3YF-1RF         FP16	98 16913	PROPELLER	S SR20) TELEDYNE	674.6	674.5 6 674.5
PD Problem / Discrepancy (PD)	ATA CA	Corrective Action (CA)	ATA	ACC Date	Hrs DT Mech Insp
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Odegard School of Aerospace Sci. WKO#:

University of North Dakota

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Page 1 of \_

	INS	PEC	TION SUPPLEMENT AND	WORK ORD	DER			P	age	1 of	
Odegard School of Aerospace Sci. University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N Customer: EASE Acc##. 999	Mech Shop Equi Oper	n: O Coo p Co ned:	1043656 KHP de: A de: A 3/21/2005 6:30 Preliminary Ins	R/A Parts (opti)	LS B	EFOR	Date	close	d: ,	3/21	84 /05
N#: N777ND AoftType: SR20	Mode			Bill Meter: 67			Tach:			Init_	7年,
Part#         Serial           SR20         1269           IO-360-ES6B         36749           PHC-J3YF-1RF         FP186	<del>#</del> 18		Description AIRFRAME ENGINE (CIRRUS S PROPELLER	GR20) TELEC	YNE	С	TSO 676. 676.	0		876.0 876.0 876.0	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	DΤ	Mech	Insp
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	INSE	ECTIO	ON SUPPLEMENT AND	WORK OF	RDER			P	age	1 of _	<u> </u>
Odegard School of Aerospace Sci. University of North Dakota Grand Forks Intl. Airport Mark Andrews Field	Mech: Shop (	Code:			ALS B		RE FILII			,	) V
Grand Forks, ND 58202 Repair Station# OG5R092N	Equip Opene	ed:	3/29/2005 10:22  Preliminary Ins	Parts (optl)	/ //	roore	Date ss Insp		d: .	3/29	05
Customer: EASE Acct#. 999	IA-0000→	4/1									
N#: N777ND AcftType: SR20	Model:	: SR2	20 1	Bill Meter: 6	98.4	A/F	Tach:	698.4		Init_	E C
Part# Seria#	¥		Description				TSO			l Time	
SR20 1258			AIRFRAME			_	701.			701.1	
10-360-ES6B 35749			ENGINE (CIRRUS	SR20) TELE	DYNE	C	701. 701.			701.1 701.1	
PHC-J3YF-1RF FP186	388		PROPELLER				701.	•		701.1	
PD Problem / Discrepancy (PD)	ATA C	A Co	orrective Action (CA)		ATA	ACC	Date	Hrs	рт	Mech	Insp
IL/H Plug	20 1	, (	Replaced Al	,,,	35	N	39	, 5			TEB
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#### **MATERIAL REQUISITION**

INSPECTION SUPPLEMENT	AND WORK ORDER
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Page 1 of \_\_\_\_

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Joegaro	DCUDO	OT	Aerospace	JUI.

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University of North Dakota

Mech:

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Grand Forks Intl. Airport

Mark Andrews Field

Shop Code: A Equip Code: A

Model: SR20

Bill Meter: 711.0

Grand Forks, ND 58202 Repair Station# OG5R092N

N#: N777ND AcftType: SR20

Opened:

4/1/2005 12:27

Date closed: Parts (opti)

Customer: EASE

Acct#: 1245-0518-471

A/F Tach: 711.0

Init BSS

Part#	Serial#	Description	<u>TSO</u>	Total Time
SR20	1258	AIRFRAME	713.7	713.7
10-360-ES6B	357498	ENGINE (CIRRUS SR20) TELEDYNE C	713.7	713.7
PHC-J3YF-1RF	FP1868B	PROPELLER	713.7	713.7

Problem / Discrepancy (PD)		CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	ÞΤ	Mech	Insp
Approach last	34/50	1	Found transponder w/	34/50	2	4/1	1.0		352	KH
Approach last transponder 2			but connector Removed	1						
times during flight			and replaced transporte	_	in the second					2
			Allops checks good.				-			
67XX327 S/N 837Ø7422			77.10			2 2 . <b>1</b> 0				
IN					esta a	976 -				ē
SN 83713848	1	polla	y the aircraft airframe, aircraft engine, propelle ce identified above was repaired and inspect	ed in	Post No.	1			7:	
	1 1	dund	ence with current regulations of the Federal A stration with respect to the work perfermed ar to be already and is approved for return to a d Repair Station QS5R092N.	viation nd envice.	1 1					
			zed Signature le Colo			4				
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University of North Dakota Grand Forks, North Dakota 58202

## **MATERIAL REQUISITION**

Carlotte Control of the Control of t		Grand Forks, North Dak	ota 58202				
DATE	= 4/	01/05 ACFT NO	o. N777 NB	MATERIAL R	EQUISITION	ON	
PD	MI BSS	Part Number GTX 327	Serial Number  83713868	Description  XAAC		ON  ICC Return Y/N	Batch # 700/93 (
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	INC	DEC.	TION SUPPLEMENT AN	ID WORK ORD	DER			Pag	e 1 of	
	A		1043980	OBTAI	N ALL	:				
Odegard School of Aerospace Sci.	WKO		CME	INITIA	LS BE	FOR	E FILIN	<u>G</u>	(	W
University of North Dakota	Mech			6						70
Grand Forks Intl. Airport	Shop			R/A OY	)					`
Mark Andrews Field Grand Forks, ND 58202	Equip	Co	de: A		DSh		Date	closed:	4-2	-05
Repair Station# OG5R092N	Open	ed:	4/2/2005 11:18	Parts (opti)			Lake	1		
Customer: EASE Accl#: 124	5-0518	<b>-471</b>	Preliminary In	sp 4	In P	rogre	ss Insp	10		
N#: N777ND AoftType: SR20	Mode			Bill Meter: 71	6.0	A/F	Taoh: 7	715.8	Init C	ne
5	4		Description				<u>TSO</u>	To	tal Time	
I GI DT	<u> </u>		AIRFRAME				718.	5	719.5	
SR20 1258	_		ENGINE (CIRRUS	SR2M TELEI	DYNE	C	718.	5	718.5	
IO-360-ES6B 35749	8			3 31120) 1222	-		718.	6	719.5	
PHC-J3YF-1RF FP186	388		PROPELLER					_		
- III (PiPD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	T Mech	Insp
PD Problem / Discrepancy (PD)					25	. \	4/8	./		af
1 Pad on Pilots	25		reattached	pad	10	$\omega$	118	.4	Cone	AP.
door not attached								-		
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attached		+								
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			I certify the aircraft airframe, appliance identified above w accordance with current reg	ras repaired and in ulations of the Fed	ispected Jeral Avi	ation				
		1	Administration with respect found to be airworthy and is Certified Repair Station OG	to the work performand approved for return	ried, and	1				
	-	+		15/1/2	11	+	$\leftarrow$			
			Authorized Signature Date	21/m	-	-	T			İ
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Page 1 of \_\_\_\_

		INS	SPEC	CTION SUPPLEMENT AND WORK OF	RDER			Pag	ge 1 of	3_
Odegard Scho University of N Grand Forks I Mark Andrews Grand Forks, Repair Station Customer: EA	ntl. Airport s Field ND 58202 # OG5R092N	Meol Shop Equi Oper	h: p Co p Co ned:	CME  de: F  de: A  4/4/2005 6:59 Parts (opti)	26	EFOR	Date	closed:	4-5-	Χφ -0 <b>5</b>
₩: N777ND	AcftType: SR20	Mod	el: S	GR20 Bill Meter: 7	15.8	A/F	Tach:	715.8	Init <u></u>	ne
Part# SR20 IO-360-ES6B PHC-J3YF-16	<u>Seria</u> 1258 35749	98		<u>Description</u> AIRFRAME ENGINE (CIRRUS SR20) TELE PROPELLER	:DYNE	С	718. 718. 718.	5 5	718.5 718.5 718.5 718.5	
PD Problem	Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT Mech	Insp
1 100 Ho	us Manuel	20	J	Started 100 How/ April	05	N	44	7.0	One Rus	MNY Mn L
Zaspe	ction Due		2	completed 100 Hour/Am	/	N	4/5	5.G 4.5	CME	any I
			a re	in airworthy condition, and is approve Certified Repair Station OG5R0	ncludirection or and ward for re	g, as	ance wi applica mined	h ble -		
			Au	thorized Signature <u>Charles Gu</u>	-			7	The second second	
2 Indu	Chion Air	20	1	Replaced filter next Dec : 915.8	60	N	4/5	,2	Rus	· B
Filte	Due			next Dec ! 915.8						
70.		-								

		INSPECT	ON S	JPPLEMENT AND WORK ORDER		Page _	2 of	3			
Reg#:	(N) <u>N777ND</u>			Work Order #: <u>/۵440/ ¥</u>							V
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
	Instrument filter	05	1	Regeland Smatrument	37	N	45	3		Rws	M
	replacement Due			Lilter next Dui							
				1215.8							-
								17			<del> </del>
4	Heat shroud duct	21	1	Secured duct to	21	N	4/5	٤.	-	ane	mf
	starting to chase on			prevent chatting	-			-	-		-
, F	engia maunt	7.5			<u> </u>	10		-	$\vdash$	-	+-
		6.1	<u> </u>		61		4/5	-	+		AND I
5	Prop has nicks	61	1	Dressed prop	∞	N	115	.3	$\vdash$	ME	MN
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6		32	1	Attend 1 Aut alab	32	1	4/5	1		Cn€	is
_	nut plate on His mes	10		Attacked Nutplake							
	not attached			10 17 1120							

	INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page	<u> </u>	f_2	-		
leg#: (N) <u>227</u>			Work Order #: 1044018							
PD   Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC		Hrs	ОТ	Mech	Insp
2 Left brake linings	32	1	Replaced lining	32	N	4/5	, ગ્ર	• %	Rus	M
Was										
8 mixture control and	7/10	,	Replaced Rod End	7b	N	4/5	2		Rus	W
end bad			represent the in							
9 11-11	32			32		W				in/()
Need replacement	10	/	Repland 3 bad well nuts 25 host, 140g	10	N	4/5	.Ω		CME	IV IV
O Inspector time	05		Insp. Time for	05	N	4/5	J. D		ms	MY.
7			Billing							
		a	portify the aircraft airframe, aircraft engine, propobliance identified above was repaired and inspondence with current regulations of the Federal	al Aviation					-	-3.2
		fc	administration with respect to the work personal bund to be airworthy and is approved for return to the series Station OG5R092N.	o service.			7		1,	-
		Â	uthorized Signature // 15 / 15 / 15 / 15 / 15 / 15 / 15 /					10		

#### **MATERIAL REQUISITION**

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 Part Number
 Serial Number
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PD	MI	Part Number	Serial Number	Description	Quan.	MCC	Return Y/N	Batch #
X	RUMS	CH48709		oil filter	1			3246
1	1	15W50		oil	8			
1		M\$29513-137 NA\$1523-8B M\$35769-21		onng	1			2298
X	1	NA\$1523-8B	A	stat-o-seal	1			3767
1	RUB	M\$35769-21		gasket  Aw Filter  gostet  long.	1			2776
Z	1	RA 7.4	V 1000	Au Filter	1			869
Y		M-679 66-141 105-2		gostet	15			4202
17		66-141	=	long.	2			376
7		105-2		Rivet	6			
3		D9-18-1		Rive +	1			428
3/		B3-5-1		Filter	1		-	4192
80	1	452-606		Rod and	1			
	CME	50802-001		well not	<b>B</b> 1			389
9	1	50803-001		well aut	2		1	2703
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				MON CUIDDI EMENT AND WORK O	RDER			Pa	age	1 of!	
Or	legard School of Aerospace Sc				AIN AL		e eu in			(	
Un	iversity of North Dakota	Meo	h:	BSS INIT	IALS B	EFUR	E FILIN	VG			N/
	and Forks Intl. Airport	Shop	Coo	de: A	(O						-1
	ark Andrews Field and Forks, ND 58202	Equi	p Co	de: A R/A	<del>. T</del>		D-1-	_1	u.	1/1	4
Re	pair Station# OG5R092N	Ope	ned:	4/11/2005 13:14 Parts (opt	) <del> </del>		Date	close	a	<del>-7/11</del> ,	103
	ıstomer: EASE Acc#. 12	45-051	B-471	Preliminary Insp	\ In F	orogre	ss Insp				
N#	N777ND AuftType: SR20	Mod	el: S	SR20 Bill Meter:	73 <b>6</b> .8	A/F	Tach:			Init 👤	<u>55</u>
p:	r₩ <u>Seria</u>	₩		<u>Description</u>			TSO	2 ]	1000000	l Time	
	20 1258			AIRFRAME			739.	.5		739.5	
	120			ENGINE (CIRRUS SR20) TELI	EDYNE	С	739.	.5		739.5	
• -	-200-5900			PROPELLER			739	.5		739.5	
Ph	HC-JBYF-1RF FP18	308B		PROPELLER							
PE	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	ÞΤ	Mech	Insp
<u> </u>	HSI indicating	34/	1	Check Mx pages of	34/0	N	34/40	1.0		Bss	
_	30-35° of mag			EHSI. All settings	1 1				-		_
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_		a	<b>XVIII AN</b>	he aircraft airframe, aircraft engine, propelle e identified above was repaired and inspect nce with current regulations of the Federal A	ed in				T		
		fo	und to	ration with respect to the work performed ar be airworthy and is approved for return to s Repair Station OG5R992N.	d				T		
				ed Signature 407/11/1	$\geq$				T	1	1
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	INSF	PECTI	ON SUPPLEMENT AND	WORK ORE	ER			Pag	je '	1 of1	
Odegard School of Aerospace Sci. University of North Dakota		<b>#</b> :	1044232 DPS	OBTAL	N ALL	FORE	FILIN	<u>G</u>		b	β
Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N  Customer: EASE Acci#: 124	Shop Equip Open	Code Code ed:	a: A	R/A	In P		s Insp _	KH <sub>7</sub>	þ	4/13/	
N#: N777ND AcftType: SR20	Mode	el: SR	220 E	3ill Meter: 73	7.0	A/F	Tach: 7			Init <u></u> ⊀	45
Part#         Seria           SR20         1258           IO-360-ES6B         3574           PHC-J3YF-1RF         FP18	98		Description AIRFRAME ENGINE (CIRRUS S PROPELLER	SR20) TELEC	YNE (	С	741. 741. 741.	5 5	7	Time (41.5 (41.5 (41.5	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	5	Mech	Insp
1 Approach	34,	1	Tested tra	nspondo	34/ 50	N	<del>1/1</del>	.8		DPs	KH
not picking uf	2		on bench a						H		
transponder very well.			checks goo Power outp	_							
Very Well.				low.							
		2	Trouble short and	d found	34/50	N	4/2	8.5		B55	KHY
			coax cable be						,	DPS.	KI
		1 1	old cable from A		1			_	+		<del> </del>
			RG-142 from to	ransponde	-	+	-	+	+		-
			to antenna. To		1	+	-	+-	+		-
. —			ops checks good		1	+	+	-	+	+	-
1			out is good Re-	assembled					4		

A/C all other systems op

Check good.

I certify the aircraft airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Airministration with respect to the work performed and found to be airworthy and is approved for return to service.

Certified Repair Station OGSROOM.

			OPTA	IN AL	,					
Odegard School of Aerospace Sci.	WKO#:	1044363	INITIA	LS BE	FOR	E FILIN	<u>IG</u>			W
University of North Dakota	Mech:	DPS	M	^						OY
Grand Forks Intl. Airport Mark Andrews Field	Shop Co		R/A ()	P					Visk	1
Mark Andrews Fleid Grand Forks, ND 58202	Equip Co		Parts (opti)	MH	L	Date	closed	s: 4	1-15	-05
Repair Station# OG5R092N	Opened:			1						
Customer: EASE Acct#. 124	5-0518-47	1 Preliminary I	nsp MSB	In F	rogre	ss Insp .	ms6	<u>,                                    </u>		
N#: N777ND AcftType: SR20	Model:	SR20	Bill Meter: 7	17.4	A/F	Tach:	747.4		Init £	RS
0	<b>¥</b>	Description				TSO	I	ota	l Time	
1000	<u>.</u>	AIRFRAME				750.	1	7	750.1	
SK20	0	ENGINE (CIRRU	IS SR20) TELE	DYNE	С	750.	1	7	750.1	
10-300-2000		PROPELLER	•			750.	1	7	750.1	
PHC-J3YF-1RF FP186	966	PROFECCIÓ			X					
PD Problem / Discrepancy (PD)	ATA CA	Corrective Action (CA	)	ATA	ACC	Date	Hrs	ÞΠ	Mech	Insp
	227			23/		41		П	00-	
Pilot con't	10/	Turned u	<b>P</b>	1/10	N	15	.4	Ш	ors	mes
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or passengers.		of audio p	anel.					Ц		
or fassengers.		7								
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		checks	good.			- 1 y		$\sqcup$		-
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-	1	I certify the aircraft airfram	e, alrcraft engine, p	ropeller	, or			$\perp$		1_
		appliance identified above accordance with current re	egulations of the Fe	deral Av	ilation					
		Administration with respect	t to the work perfor	ned and	-					<u> </u>
		Certified Repair Station O	G5R092N.	1					-	
	7	Authorized Signature	my 3 Since	1						
	Tare a	Date 4-15-05								
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	INSPECTIO	N SUPPLEMENT A	ND WORK ORDER	Page 1 of
Mark Andrews Field	WKO#: Mech: Shop Code: Equip Code:	1044532 CME F A	OBTAIN ALL INITIALS BEFORE FILING	losed: <u>4-21-05</u>
Grand Forks, ND 58202 Repair Station# OG5R092N	Opened:	4/21/2005 17:37	Parts (opti) Date c	4.0

Page 1 of \_\_\_\_\_

Repair Stations OGSR08214		- " :	In F	roare	ss Insp ,	msB			
Customer: EASE Accts: 124	45-0518-471	Preliminary Insp <u>M38</u>						: A	
N#. N777ND AcftType: SR20	Model: SR20	Bill Meter:	768.0	A/F	Tach:			nit 🕰	12
Part#         Serial           SR20         1258           IO-360-ES6B         35749           PHC-J3YF-1RF         FP186	98	<u>Description</u> AIRFRAME ENGINE (CIRRUS SR20) TEL PROPELLER	EDYNE	С	<u>TSO</u> 772. 772. 772	.3 .3	772 772 772 772	2.3	
PD Problem / Discrepancy (PD)	ATA CA Cor	rective Action (CA)	ATA	ACC	Date	Hrs	DT N	lech	Insp
1 50 hour inspect	05 1	ompleted 50 hour	05	W	4/21	3.2	C	m€	ms
Due		Acceptor I.A.W		_			H		

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_	50 hour inspect	120	<del> </del>	completed 50 hour	-0					
_	Due			inspection I.A.W		-		$\dashv$		
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				checklist.						
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2	Bt In board flop	53	)	stop drilled crack	53	N	1/21	.1	ANS	MSE
_	Mount faring			<u>'</u>						
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<u>-</u> 3	Inspector time	60		Inspected	60	1/	4-21	.4	msB	mse
	/			I certify the aircraft airframe, aircraft engine, appliance identified above was repaired and accordance with current regulations of the F	inspecte ederal A	id in viation				
			**	Administration with respect to the work perfound to be airworthy and is approved for recertified Repair Station OG5R092N.	ormed an	d l				
_		1		Authorized Signature Wwy Bushing	=	- 1000	N. Carrier			
								1		_

#### **MATERIAL REQUISITION**

WO NO. 1044532

DATE 4/21/05 ACFT NO. N777ND Quan. MCC Return Y/N Batch # Description Serial Number Part Number PD 4248 CME Ch 48109 filter

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Page	1	of	

Odegard	School	of	Aerospace	Sci.
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University of North Dakota

Grand Forks Intl. Airport

Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N

N#: N777ND AcftType: SR20

WKO#: Mech:

1044649

SJC

Shop Code: F

Equip Code: A

Opened:

4/28/2005 12:23

OBTAIN ALL

INITIALS BEFORE FILING

Date closed:

Customer: EASE

Acct#: 1245-0518-471

Model: SR20

Preliminary Insp

In Progress Insp

Part#

Serial#

Description

Bill Meter: 781.6

Parts (opti)

A/F Tach: 781.6 TSO

Total Time

SR20

1258

AIRFRAME

ENGINE (CIRRUS SR20) TELEDYNE C

784.3 784.3 784.3 784.3

10-360-ES6B PHC-J3YF-1RF 357498 FP1868B

**PROPELLER** 

784.3

784.3

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	7	Mech	Insp
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	not retract on										
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Odegard School of Aerospace Sci University of North Dakota Grand Forks Intl. Airport	Mec	h:	1044907 SJC de: F		AIN AI ALS E		RE FILI	pf		
Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N	Equi Ope	ip Co ned:	ode: A 5/10/2005 9:18	R/A				e close	1	0/0.
Customer: EASE Acct#. 12	45-051	8-47	1 Preliminary In	nsp	In I	-rogr	ess Insp			
N#: N777ND AcftType: SR20	Mod	lel: (	SR20	Bill Meter: 7	98.3	A	F Tach:	798.3	Init	<u>Q</u> _
Parl#         Seria           SR20         1258           IO-360-ES6B         35749           PHC-J3YF-1RF         FP18	98	•	<u>Description</u> AIRFRAME ENGINE (CIRRUS PROPELLER	SR20) TELE	1	1	TSC 801 801 801	.0 .0 .0	801.0 801.0 801.0 801.0	-1
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	OT Mech	Insp
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Page 1 of \_\_\_\_

## **MATERIAL REQUISITION**

ATE 5/10/05 ACFT NO. N777NO W/O NO. 10 44907

PD	MI	Part Number	Serial Number	Description	Quan.	мсс	Return Y/N	Batch #
4	500	459-887		File ext.	1		Y/N	4389
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177.000						1	100	

Odegard School of Aerospace Sci. WKO#.

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University of North Dakota

Mech:

Opened:

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INITIALS BEFORE FILING

Grand Forks Intl. Airport

Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N Shop Code: F

Equip Code: A

Parts (opti)

Customer: EASE

Acct#: 1245-0518-471

Preliminary Insp

In Progress Insp OCC

N#: N777ND AcftType: SR20

Model: SR20

Bill Meter: 813.1

A/F Tach: 813.1 Total Time

Part# **SR20**  Serial# 1258

Description AIRFRAME

5/20/2005 7:03

TSO<sub></sub> 815.8

815.8

10-360-ES6B

357498

ENGINE (CIRRUS SR20) TELEDYNE C

815.8

915.8

PHC-J3YF-1RF

FP1868B

PROPELLER

815.8

815.8

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	ÞΤ	Mech	Insp
100 hour inspects	050	1	Started lookout Top	050	N	5/20	3.0		Rul	Ø
due	· 	2	Completed 100 hour Ins	20	a	150	4.0		M	4
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	3			133	3	5/03	40	A. T. Santa	one	X
0	with a		inspection, inc	ecorda luding,	nce es ap	<del>olicable</del>	. A . (p. Co.)	and the same of the same of	500000	-
	a rou	tine	and detailed inspection	of	i estessie	=				
	unak	wort	y and a list of discrepancies and una				4	Total	700	
		10	ertified Repair Station OG5R092N		4		40	No. of Section	Shelologe	
			8-23-05	+	-	Y Z	1		no.hz.	
5B2X-57-05	00	1	Performed +B2+-57-0	5 00	N	8/33	1.5		MB	and the same of th
Ailon hinge		Contract of the Contract of th	on L/Hailer on R/H	٧		36	1		Automotive.	
bearing insp			still needs to be complete	/	1	12		100	- 10	
Rev 1/15/05			ree 11/			- P 		1	45744457	
		3	ferformed &B 2X-57-6	25 00	N	5/5	6.6	a man delicary	AMB	æ
*0			on NHaileron node fects for and installed 5B27-57-08		1	-			- 41	T
	Problem / Discrepancy (PD)  100 how inspects due  SB2X-57-05  Alvon hinge bearing insp  Rev 1/15/05	Joo hour inspects 30  due  serting in spects a rounding follow  Authorized Authorized a rounding follow  Authorized a rounding	100 hour inspects 20 / due  sertify the with a / a routine  unainvort follows by Authorize Date  SB2X-57-05-00 /  Alvon higge bearing insp  Rev 1/15/05	Job bour inspection of 2 completed 100 hour Tres  T. A. W Cirras SRAO  Mant Manual  John Manual	JOD how inspector 20 / Started lookow Top 30 due 2 completed lookow Top 30 To A, W Cirras SRAO  Mant Manual inspection of inspec	Job how inspector 20 / Started Job how Ing 20 N  John Lings to 20 / Started Job how Ing 20 N  Lift was serily that this aircraft has been inspected in accordance with a 122 how inspection, including, as ap a routine inspection of and detailed inspection of and was determined unainworthy and a list of discrepancies and unainworthy item follows by problem description number: 2, 11  Certified Repair Station OGSR092N  Authorized Signature Chall Market  Date 2220  SB2X-52-05 00 / Performe of 1824-57-05 00 N  Alvon hinge on hill needs to be completed  Rev 1/15/05 See BD 11  Terforme of 1824-57-05 00 N	And the completed looker to be with a list of discrepancies and unalworthy liters to be unairvorthy and a list of discrepancies and unalworthy liters to litows by problem description number:  SB2X-52-05-00   Performe of B2X-52-05-00   N 833    Alvon hinge   Alvon hing	Problem/ Discrepancy (PD)  Ala Ca Carrective Action (CA)  Started 100 hour Top 30 N 920 5.0  due  Completed 100 hour Top 20 N 50 4.0  To A, W Cir Cas SR20  Started 100 hour Top 20 N 50 4.0  To A, W Cir Cas SR20  Mant Manual  Start 40  Settly that this aircraft has been inspected in accordance with a 122 hour inspection of and was determined to be unsinvorthy and a list of discrepancies and unailworthy literal follows by problem description number 2 + H  Carriffed Repeir Station OG5R092N  Authorized Signature Chalmer 2 + H  Date S-22 ST  SB2x-52-05 00   Performe 1 + B2x-57-B 00 N 823 1/5  Alkon high right reference 1 + B2x-57-B 00 N 823 1/5  Alkon high reference 1 + B2x-57-B 00 N 825 1/6  Rev 1/15/105 See 1   1	Problem / Discrepancy (PD) ATA CA Corrective Account (CA)    DO how inspect to 30   Stanfed 100 how Tap 30 N 9/20 30    Do how inspect to 30   Stanfed 100 how Tap 30 N 9/20 30    T. A. W Cirras SRAO   5/20 30    Mart Manual   5/33 3.8    Mart Manual   5/33 3.8    Say 40     Say 40	Problem / Discrepancy (PD) Ald CA Corrective Action (CA)  100 how inspection 30 / Starfed 100 how Top 30 N 90 50 How To A. W Cirras Rao 5/20 50 cmc  T. A. W Cirras Rao 5/20 50 cmc  Mant Manual 5/33 38 W  John Manual 5/33 38 W  John Manual 5/33 40 cmc  with a 122 how inspection inspected in accordance with 122 how inspection, including, as applicable a routine inspection of and detailed inspection of and weat determined to be undirectly and a list of discrepancies and unalworthy items follows by problem description number:  Certified Repair Station OGSR092N  Authorized Signature Oh Manual 15 00 N 93 15 MB  Alvon honge on hit ailer of the completed see PD 11  Review 115/05 see PD 11  Review 115/05 N 5/5 6 AMB

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		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page .	2 .	f		- In	OLD IN
Reg#	: (N) <i>727</i>			Work Order #: 1045099							10
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
3	N/S MLGTING WORM	3240	1	REMOVED FIRE	3240	N	5/20	.3		The	$\mathscr{B}$
				(STILL NEED TO BE INSTALLED			51				,
			2	INSTALLED NEW TREE		N	5/21	.5		el	
4	shop nicked	6/10	1	DRELLED PROP	610	N	5/20	,4		Al	Se la constant de la
	/ /										
7				,							
5	Left brake discuss	3240	1	REMOVED & REPLACED	32	N	5/33	. 3		AL	A
				DE							The state of the s
		*									
6	R.M.L.G. Fairing missing	22/20	/	Lossted spacer +	730	N	1/23	1		Cne	1
AZ .	Plastic space	2 "		installed			- 1				A v
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	Led	INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page	30	f 4		-	1
	(N) 777			Work Order #: <u>/64 5099</u>					300		1
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
2	All Augs but # Stap	740	,	Installed New Spork	250	N	1/2	.2		One	A
	ub-n Dit			plus off ea							
											9
8	Left brake discuss	326	/	Replaced brase disc	32/8	N	5/23	۽ ۽		cne	A_
9	Ignition leads	74	/	SEPERATES & SECURES	24	N	5/20	-2	_	And	nd)
	Chaffingon at line			LINE & LEADS	70	/-	,,,,			,,,,,	Λ
	behind #/cx/		,								
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10	Find bothern #Gex!	72	1	Stop drilled creek	RA	N	5/20	./		Sme-	
1	battle Cracked			*							
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7771	,	INSPECT	TION S	UPPLEMENT AND WORK ORDER		Page	4 0	of _5	_		
Reg#: (N) <u>777 //</u>				Work Order #: 1045099							
	escription (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
Il R/Houtboard	daileron	55 10	l				5/25			AMB	ge
hing = is be	n+			R/Houtboardaileron	2	N	5/25	,4		POH	Bel
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		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page	40	19	v	-	
Reg#:	(N) <u>222</u>	*,		Work Order #: 1045000							
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Inst
2	Lower coul has wear	2/10	1		+		5/33	.8		hub	6
	Lower cowl has wear			T. A. U#43 1318ch	3						
				Repaired with fibership  T. A. WAY 3 1718 Ch							
3	Inst time	05		time	65	N	5/23	1.0		A	Sa
									-		
1			ap	rtify the aircraft airframe, aircraft engine, propell liance identified above was repaired and inspec cordance with current regulations of the Federal	ed in				1		
			for Ce	ministration with respect to the work performed a nd to be airworthy and is approved for return to stiffed Repair Station OG5R092N.	na						
			Au	horized Signature							
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## PARTS &

5/20/05 ACFT NO. N 277ND

11 5	МІ	Part Number	Serial Number	Description	Quan. N	ICC Return	Batch #
W	CME	Ch481 09			Quan.	Y/N	Batch #
1	I	15050		oilfilter	1		
1		M-674		<u>oil</u>	812	-	-
X		M\$35769-21		gask.	1		4411
3				gask. tve	1		4069
4,	AX	301-249-420 M\$35769-11		nask	1		4257
7	1	83-5-1		Gask.	1	1	3990
4	$\top$	RHN 385		spok play	1)		4507
\$	$\rightarrow$	164-244	4	PISC	17		4507
11		Nat 1523 -88	^	Stot-0-5 m 1	,		4506
5	+	164-294	decegot	Piz	1	1	4208
1		50802-001	1	wellout	1	1	3894
2	1	70 105-001	3	SB Kit	1		4506
5		11641-101		wheel assy.	1		4506
8		11-44-101		,		- 1	
5		164-244		disc	1	i v	4508
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### **MATERIAL REQUISITION**

DATE 5/25/05 ACFT NO. N7777ND W/O NO. 1645099

D MI	Part Number	Serial Number	Description	Quan.	мсс	Return Y/N	Batch #
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-				10-16-20 V			
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Odegard School of Aerospace Sci. WKO#: 1045245 University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N  Opened: 5/28/2005 8:04  Customer: EASE Acc#: 1245-0518-471  Preliminary Insp  In Progress Insp  N#: N777ND AcftType: SR20  Model: SR20  Bill Meter: 823.9  AF Tach: 823.9  Init  Part#  Serial#  Description  SR20  10-380-ES68  357498  ENGINE (CIRRUS SR20) TELEDYNE C  826.6  826.6  826.6  PROPELLER  Problem / Discrepancy (PD)  ATA CA Compatition (OA)	-	II	<b>ISPE</b>	TION SUPPLEMENT AND W	ORK O	RDFR	•			Page	1 of	1
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DATE 5/27/05 ACFT NO. N777NO

**MATERIAL REQUISITION** 

\_WONO. 1045245

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Odegard School of Aerospace Sci. WKO#.

University of North Dakota

Grand Forks Intl. Airport

Mark Andrews Field Grand Forks, ND 58202 Repair Station# OG5R092N Mech:

1045360

**RMK** 

Shop Code: F Equip Code: A

Opened:

6/3/2005 21:21

OBTAIN ALL

INITIALS BEFORE FILING

Customer: EASE

Acc##: 1245-0518-471

Preliminary Insp

N#: N777ND AcftType: SR20

Model: SR20

Bill Meter: 825.4

A/F Tach: 825.4

Par# **SR20**  Serial#

Description **AIRFRAME** 

Parts (opti)

TSO 828.1 **Total Time** 828.1

10-360-ES6B

1258 357498

ENGINE (CIRRUS SR20) TELEDYNE C

828.1

828.1

PHC-J3YF-1RF

FP1868B

**PROPELLER** 

828.1

828.1

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### **MATERIAL REQUISITION**

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C	ustomer: EASE Acct#	1245-051	18-4	71 Preliminary Insp	In	Progre	ess Insp				
N	#: N777ND AoftType: SR	20 Mod	del:	SR20 Bill Meter:	912.4	A	F Taoh:	912.4		Init Z	VSP
SI	R20 2-360-ES6B 3	<u>Seria₩</u> 1258 357498 -P1868B		<u>Description</u> AIRFRAME ENGINE (CIRRUS SR20) TELI PROPELLER	EDYNE	С	TSC 915 915 915	.1 .1	9	915.1 915.1 915.1 915.1	
PE	Problem / Discrepancy (F	PD) ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	ρŢ	Mech	Insp
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INITIALS BEFORE FILING

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NSP

Mech:

Shop Code: W

Equip Code: A

Odegard School of Aerospace Sci. WKO#:

University of North Dakota

Grand Forks Intl. Airport

Grand Forks, ND 58202

Mark Andrews Field

Page 1 of

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-	<u>II</u>	NSPE	CTION SUPPLEMENT AND WORK O	RDER			Pa	age 1 of	<u>ح</u>
Odegard School of Aerospace S University of North Dakota Grand Forks Intl. Airport Mark Andrews Field	Me Sh		CME INIT	TAIN AL TIALS E		RE FILI	<u>vg</u>		χþ
Grand Forks, ND 58202 Repair Station# OG5R092N	Ope	ened				Date ss Insp	_	d: <u>7-20</u>	2-05
Customer: EASE Acol#:						Taoh:		Init	
N#: N777ND AoftType: SR20		del:		B12.4	~				nc.
Par <del>l#</del> <u>Sei</u> 5R20 128	<u>ria₩</u> 58		<u>Description</u> AIRFRAME			<u>TSC</u>	_	<u>Fotal Time</u> 915.1	
	7498		ENGINE (CIRRUS SR20) TELI	EDYNE	С	915		915.1	
	19693		PROPELLER			916	.1	915.1	
D Problem / Discrepancy (PD	) ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT Mech	Insp
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due	3	1	inspector	05	N	7-20	7.0	an	ms
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2	1	wit	tra //20haw inspection of	tion, inc	uding	as app	icable	1 1	-
		Ţ	and detailed insp				-	1	
	3		airworthy and a list of discrepancies a	and una	wort	rmined ly items			
			Certified Repair Station OG5R0	92N			,	11 .	
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		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page_	7 0	f_3_			1 mil
Reg#:	(N)			Work Order #: 10 46345							1
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
3	Induction airfillers	000	/	Removed & Replaced	01	N	20	.2		an	pusas
	due time change			Induction sir file	1						
	1			next due @ 1112.4	-		-				
4	Prophosovers	61/00	1	Filed Prop	6//00	N	7/20	al		94	msp
		=0			72		7/		_		MAS
5	Brake linings was	326	1	Removed : Repland	40	W	120	.2		GAZ	ספטיון
6	Alt air housing needs	21 00	1	Saved housing	71 60	W	7/21	-1		go	MSB
	Alt air housing needs to be secured										
		7									

		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page _	<u> </u>	_ 2			
Reg#	(N) 287WD			Work Order #: 1046345							
PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	ОТ	Mech	Insp
2	both baffle springs	72	1	a divided springs	72	Ν	7.21	.3		cme	MSB
	an both sider of engine									-	15 8
	read to be adjusted										3.3
							1				9
8	Capmissing on nosegue	22	1	Enstalled new cap	32	N	21	,2		Con	MSB
	faring			•							
		1 70		*			_				
9	Nosestrut has excessed	32	1	Ordered bolf + bushing	20	N	21	.2		cre	MSB
	play		2	Intalled no bottoby	1 3 2 V	N	22	1.0		CM	A .
1			1	on bath side of nacquer	struto	teng	remou	+.	1		
0	Inspector Line	05	1	Inspected	92	N	7-21			MSB	msB
	- Copper - Co		1		200					7	7
1			ap	ertify the aircraft airframe, aircraft engine, proper pitance identified above was repaired and inspe- tordance with current regulations of the Federa ministration with respect to the work performed	Aviation						<i>7</i> 1
$\dashv$		/	for Co	und to be airworthy and is approved for return to tified Repair Station OG55992N.	Service.	>					
				uthorized Signature 2000 100 100 100 100 100 100 100 100 10							

### **MATERIAL REQUISITION**

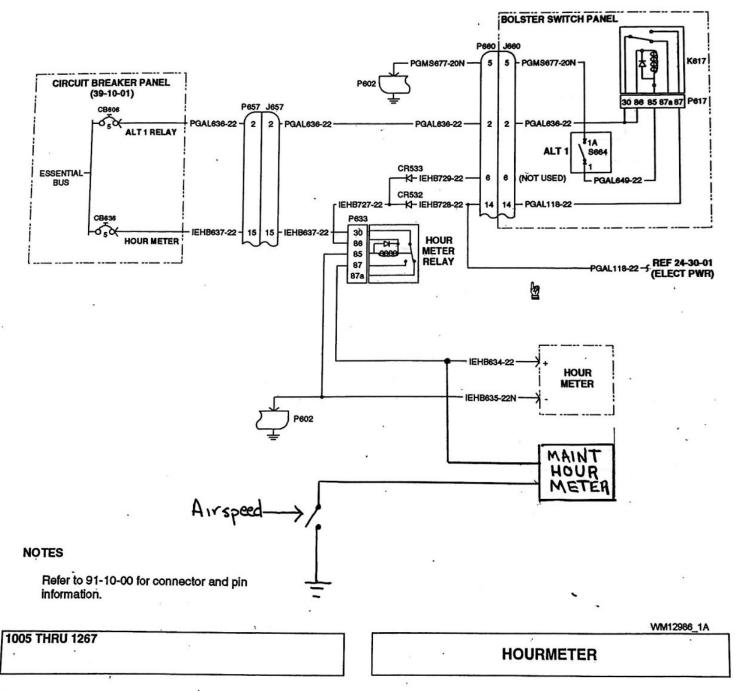
120/05

ACFT NO. 777ND

\_WONO. <u>1046345</u>

	МІ	Part Number	Serial Number	Description	Quan.	мсс	Return Y/N	Batch #	
1	me	cH48109		oil Filter	1			4604	-
71		15 wso		oil	8			-	-
./		m-674	4	gosket gosket gosket stato seal	12		1	4632	
1		m\$35769-21		gostes +	1			-	_
1		m\$35769-11		gosket	1	_	1	32116	
7		NO\$1523-8B		stato seal	/	_	_	4636	
3 1		BAZY		Der Filter	1	$\perp$	1	4069	_
5 A	100	66-141		pad	2	$\perp$	1	4111	_
5		105-2		river	6	$\perp$	4	4382	_
1 0	me	B3-5-1		inst. Filter	1	1	_	468	_
	1	50807-001		wellnut	5			463	_
,	T	50803-001		well not	5			963	
8 6	re	50498-200		< AP	1			468	
7	1	12935-001		Spacer	3			40	9
7	-	NA\$77-8-013		bushing	0			46	9
71	11	NA\$6206-26D		bolt	3			40	8
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how mobbs for alteration. Maint 1340 10 3.0 1811  maintenance hobbs is mounted 3 30 N 8/10 2.5 Ops mss  in glore bux near  existing billing hobbs.  Receives power thru  hour meter relay & gnd  thru air speed switch  Tested operation.  Installed placards  Corrected time in  AIMS system. Revise  weight & Balance  and equipment list.  Schematic placed in  per manerit records  and attached to		INSP	ЕСПС	N SUPPLEMENT A	ND WORK OR	DER			Pag	e 1 of _	
Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202  Customer: EASE  Accept 1245-0518-471  Preliminary Insp. perc.  In Progress Ins	Odegard School of Aerospace Sci. University of North Dakota		ŧ					E FIUN	<u>IG</u>	1	SY
Grand Forks, ND 58202  Opened: 8/8/2005 8:10  Opened: 8/8/2005 8:10  Opened: 8/8/2005 8:10  Opened: 8/8/2005 8:10  Opened: 8/8/2005 8:10  Parts (opt)  In Progress Insp ###  In In Insp ###  In Progress Insp ###  In Progress Insp ###  In Progress Insp ###  In In Insp Insp ###  In In Insp Insp ###  In In Insp Insp ###  In In Insp Insp ###  In In Insp Insp Insp Insp Insp Insp Insp	Grand Forks Intl. Airport	Shop C	Code:	A	<b>/</b>	D				1	1
Customer: EASE Accitt 1245-0518-471 Preliminary Insp Med In Progress Insp Med In Progress Insp Med Insp Note Insp Insp Insp Insp Insp Insp Insp Insp		Equip (	Code:		-	4		Data	alacad	8/10	105
Customer: EASE Acces 1250-01517   Model: SR20   Bill Meter: 957.7   AF Tach: 957.7   Init MEP  Part#   Serial#   Description   TSO   Total Time   960.4   960.4   960.4		Opene	d:	8/9/2005 8:10	Parts (opti)	+		Date	ciosea	4/10	
Part# Seria## Description SR20 1258 AIRFRAME SR20 1	Customer: EASE Acct#. 12	15-0518-4	171	Preliminary Ir	nsp <u>WSR</u>	In P					AV.D
Part Sender  SR20 1258 AIRFRAME RNGINE (CIRRUS SR20) TELEDYNE C 960.4 96	N#: N777ND AcftType: SR20	Model:	SR2	0	Bill Meter: 9	57.7	AVE		í		MY
SR20  1258  AIRFRAME  10-380-ES8B  33749B  ENGINE (CIRRUS SR20) TELEDYNE C  960.4  960	Parl# Seria	<u>#</u>		<u>Description</u>							
10-360-E36B 35/48B ENGINE (CIRROS STREET) TELECTOR 960.4 960.4  PHOLJAYF-1RF FP1868B PROPELLER 960.4 960.4  PHOLJAYF-1RF FP1868B PROPELLER 960.4 960.4  PHOLJAYF-1RF FP1868B PROPELLER 960.4 960.4  PHOLJAYF-1RF FP1868B PROPELLER 960.4 960.4  PHOLJAYF-1RF FP1868B PROPELLER 960.4 960.4  PHOLJAYF-1RF FP1868B PROPELLER 960.4 960.4  PHOLJAYF-1RF PROPELLER 960.4 960.4  PHOLJAYF-1RF PROPELLER 960.4 960.4  PHOLJAYF-1RF PROPELLER 960.4 960.4  PHOLJAYF-1RF PROPELLER 960.4 960.4  PHOLJAYF-1RF PROPELLER 960.4 960.4  PHOLJAYF-1RF PROPELLER 960.4 960.4  PHOLJAYF-1RF PROPELLER 960.4 960.4  PHOLJAYF-1RF PROPELLER 960.4 960.4  PHOLJAYF-1RF PROPELLER 960.4 960.4  PHOLJAYF-1RF PROPELLER 960.4 960.4  PHOLJAYF-1RF PROPELLER 960.4  PHOLJAYF-1RF PROPELLER 960.4	4050										
PD Problem/Discrepancy (PD) ATA CA Corrective Action (CA)  I Install Flight 3 201 Per formed minor 3 30 N 8 9 2.5 DR MSK  how mobbs for alteration, Maint 30 N 8 10 2.5 DRS MSK  maintenance hobbs is mounted 31 30 N 8 10 2.5 DRS MSK  hobbs is mounted 31 30 N 8 10 2.5 DRS MSK  cxisting billing hobbs  Receives power thru  how meter relay of gnd  thru air speed switch  Tested operation,  Installed placards  Corrected time in  AIMS system. Revisal  weight & Balance  and equipment records  and attached to	IO-360-ES6B 35749	38		ENGINE (CIRRUS	SR20) TELE	DYNE	C				
I Install Flight 3201 Performed minor 3130 N 89 2.5 Des more hour mobbs for alteration. Maint 300 8/0 3.0 KHF most maintenance hobbs is mounted 3130 N 8/10 2.5 Des more hobbs in glore box near  existing billing hobbs.  Receives power thru  hour meter relay & gnd thru air speed switch Tested operation Installed placards Corrected time in  AIMS system. Revise weight & Balance and a Uniment list. Schematic placed in servangement records and attached to	PHC-J3YF-1RF FP18	68B		PROPELLER				960.	4	900.4	
I Install Flight 301 Performed minor 30 N 79 2.5 DPS MSM.  how mobbs for alteration. Maint 30N 8/10 3.0 KHP MSB  maintenance hobbs is mounted 31/30 N 8/10 2.5 DPS MSM.  hobbs in glore bux near  existing billing hobbs.  Receives power thru  how meter relay of gnd  thru air speed switch  Tested operation  Installed placards  Corrected time in  AIMS system. Revisor  weight of Balance and equipment records  and attached to	PD Problem / Discrepancy (PD)	ATA C	A Co	orrective Action (CA)		ATA	ACC	Date	Hrs	OT Mech	Insp
hour mobbs for alteration. Maint 30N 8/0 3.0 KHP miss  maintenance hobbs is mounted 3130 N 8/0 2.5 Ops miss  hobbs in glore box near  existing billing hobbs.  Receives power thru  hour meter relay & gnd  thru air speed switch Tosted operation  Installed placards Corrected time in  AIMS system. Revised  weight & Balance and equipment list.  Schematic placed in per majner records  dnd attached to	1 Install Flight	31 30 1	P	Performed m	nnor		7	8/9	2.5	DPS	msk
maintenance  hobbs is mounted  in glore bux near  existing billing hobbs.  Receives power thru  hour meter relay & gnd  thru air speed switch  Tested operation  Installed placards  Corrected time in  AIMS system. Revse  weight & Balance  and equipment list.  Schematic placed in  per manent records  and attached to						31 30	2	8/0	3.0	KHP	MSB
hobbs  in glore bux near  existing billing hobbs.  Receives power thru  hour meter relay & gnd  thru air speed switch. Tested operation  Installed placards Corrected time in  AIMS system. Revised  weight & Balance and equipment list.  Schematic placed in permanent records  and attached to						31 30	4	8/10	2,5	OPS	MSB
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Receives power thru  hour meter relay & gnd  thru air speed switch  Tested operation  Installed placards  Corrected time in  AIMS system. Revsed  weight & Balance and equipment list.  Schematic placed in per maneral records  and attached to			ex	15ting billing	ig hobbs	1 10					
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AIMS system. Rensed  Weight & Balance and equipment list.  Schematic placed in permanent records  and attached to			1	•							
AIMS system. Rensed  Weight & Balance and equipment list.  Schematic placed in permanent records  and attached to			+	hru air spe	ed Swatch						
AIMS system. Rensed  Weight & Balance and equipment list.  Schematic placed in permanent records  and attached to			7	ested oper	ation,						
AIMS system. Rensed  Weight & Balance and equipment list.  Schematic placed in permanent records  and attached to		1 1	I	installed pl	acards						
and attached to			A	ims syste	m. Revisa						
and attached to			u	veight & Ba	lance.	T					
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			a	nd attached	1 40	1					
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I certify the aircraft airframe, aircraft eigine, propeller, or appliance identified above was repaired and inspected in	appliance identified above was repair	red and ins	pected	in							
Administration with respect to the work performed and	Administration with respect to the wo	ort performe	bris be				T				1
found to be airworthy and is approved for return to service.	found to be airworthy and is approve	d for return	to serv	rice.							
Authorized Signature   Muly 3. July 1.	Authorized Signature   Wuly3	- Sope .									
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12129-001 30 Sep 2003 31-30-01

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# JOHN D. ODEGARD SCHOOL OF AEROSPACE SCIENCES UNIVERSITY OF NORTH DAKOTA

### WEIGHT AND BALANCE, AND EQUIPMENT LIST REVISION

AIRCRAFT MODEL	5 R 20
N NUMBER	777 ND
SERIAL NO	1258
DATE	8/10/05

AMOUNT	DESCRIPTION	WEIGHT (LB)	ARM (IN)	MOMENT
1	Airspeed switch	0.3	110.0	33.0
1	Airspeed switch Hobbs	0.2	145.0	29.0
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	E.W.	C.G	MOMENT
PREVIOUS EMPTY AIRPLANE	a13 5	141.34	301,758
TOTAL ADDED OR SUBTRACTED	0.5		62.0
REVISED EMPTY AIRPLANE	a135.5	141.33	301 830
USEFUL LOAD 3000-2135.5= 864.5	Name_	Kule	Jeters

Cert No OG5 RO92N

### **MATERIAL REQUISITION**

4/20/05 ACFT NO. N 777ND WO NO. 16444 88 1046736

Ppd	MI	Part Number	Serial Number	Description	Quan.	MCC	Return Y/N	Batch #
	KHP	AMTR 3/16	6.08	install Kit	1			2575
V	T	Asigneter-PIP		Switch	li			3530
1		AMTR 3/16 Acrometer-PIP 85094		install kit Switch hobbs		_		3603
/						+	+-	-
				*	_	+	+-	+-
		. 3			_	+	+	+-
		*	10 m		_	+	+	_
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### JOHN D. ODEGARD SCHOOL OF AEROSPACE SCIENCES UNIVERSITY OF NORTH DAKOTA

## WEIGHT AND BALANCE, AND EQUIPMENT LIST REVISION

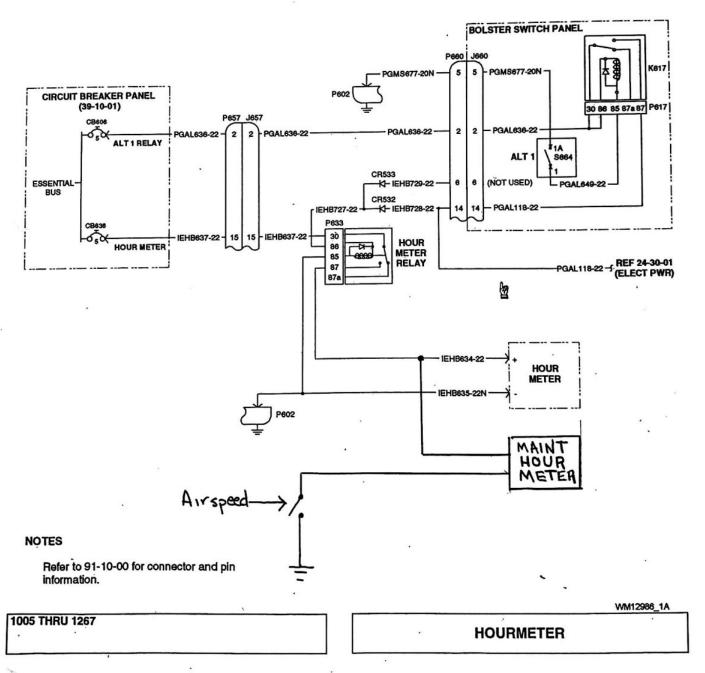
AIRCRAFT MODEL	5 R Q O
N NUMBER	777 ND
SERIAL NO	1258
DATE	8/10/05

AMOUNT	DESCRIPTION	WEIGHT (LB)	ARM (IN)	MOMENT
1	Airspeed switch	0.3	110.0	33.0 29.0
1	Airspeed switch Hobbs	0.2	145.0	29.0
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	5/3		
<u> </u>	E.W.	C.G	MOMENT
PREVIOUS EMPTY AIRPLANE	a135	141.34	301,758
TOTAL ADDED OR SUBTRACTED	0.5		68.0
REVISED EMPTY AIRPLANE	a135.5	141.33	301 830
USEFUL LOAD 3000-2135.5= 864.5	Name_	Kuje	Jeteron

Cert No OG 5 RO9 2N

c:\wt&bal.doc12/11/98



12129-001 30 Sep 2003 31-30-01 P

N#: N777ND AcftType: SR20  Part# SR20 1258 10-360-ES6B 3574	Mech: Shop C Equip C Opened 245-0518-47 Model:	KHP ode: A Code: A I: 4/20/2005 10:04 71 Preliminary In SR20  Description AIRFRAME	OBTAIN ALL INITIALS BEF  R/A Parts (optl) In Pro  Bill Meter: 761.4	Date close ogress Insp	
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PD Problem / Discrepancy (PD) ATA ICA Corrective Action (CA)			Man Maria		E d	1	- 1 m - 1		9.3-E	2.0	
Description   Serial   Seria		INSPE	CTION SUPPLEMENT	AND WORK O	RDER			Pag	je 1	of	<u>′</u>
Customer: EASE   Acct#   1245-0518-471   Preliminary Insp   MKB   In Progress Insp   MKB	University of North Dakota Grand Forks Intl. Airport	Mech:	RMK	INITI	ALS BE	FORE	FILIN	<u>a</u>		k	Sp.
N#: N777ND   AcftType: SR20   Model: SR20   Bill Meter: 957.7   A/F Tach: 0.6   Init   N#: N777ND   AcftType: SR20   Model: SR20   Description   TSO   Total Time   961.0			d: 8/12/2005 13:05	Parts (opti	1	_			: _2	3./2.0	5
N#: N777ND   AcftType: SR20   Model: SR20   Bill Meter   SR20   Total Time   SR20   1258   AIRFRAME   961.0									_	Init #	nt
A JIRE EXTINGUISHER 3670 / RENSTRULER FIRE 3670 N 8/12 5 AME MA  AUND ON FLOOR EXTINGUISHER AND  BRACKET UNDER	<u>Part#</u> <u>Serials</u> SR20 1258 O-360-ES6B 35749	# 8	<u>Description</u> AIRFRAME ENGINE (CIRRI				961. 961.	0	8	61.0 61.0	
FOUND ON FLOOL EXTINGUISHEL AND  BRACKET UNDER	PD Problem / Discrepancy (PD)	ATA CA	Corrective Action (CA	<b>()</b>	ATA	ACC	Date	Hrs	57	Mech	Insp
BRACKET UNDER	THE BYT NOUSHED	2620 /	REINSTRULEI	FIRE	2620	N	8/12	5	$\prod$	hal	Msi
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I certify the aircraft airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federa Aviati Administration with respect to the work performed and found to be airworthy and is approved for return to service Certified Repair Station OG58092N

Authorized Signature\_ Date\_\_\_8 · / 2 · 05

	IN	SPE	CTION SUPPLEMENT AN	ND WORK ORD	ER			Pag	e 1 of	_
Odegard School of Aerospace S	Gai. Wh	(O#:	1046828	OBTAIN	V ALL	=				
University of North Dakota	Me	ch:	CME	INITIAL	S BE	FOR	E FILIN	<u>G</u>	•	
Grand Forks Intl. Airport	She	op C	ode: F	ba					Q	M
Mark Andrews Field		7	Code: A	R/A W						
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Customer: EASE Acct#.	1245-05	18-47	71 Preliminary In:	sp2ms_	In P	rogre	ss Insp	MSB	ŕ	
N#: N777ND AcftType: SR20	Мо	del:	SR20	Bill Meter: 962	.3	A/F	Tach: 3	3.1	Init 🕰	ne
Part# Ser	ial#		Description		Es.		TSO	To	tal Time	
SR20 125	8		AIRFRAME				963.	5	963.5	
IO-360-ES6B 357	498		ENGINE (CIRRUS	SR20) TELEC	YNE	, ,	<b>∌6</b> 3.	5	963.5	
	868B		PROPELLER				963.		963.5	
PHC-33TF-IRF FF1	0000		PROPELLER				803.		803.3	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	OT Mech	Insp
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27.			I certify the aircraft airframe, a	ircraft engine, pror	peller	dr	1	+-	+	+
Fa.			appliance identified above was	s repaired and insp	pected	In	1			
k			accordance with current regular Administration with respect to	the work performe	ral Avi	ation		-	+	
)*			found to be airworthy and is as	pproved for return	to ser	vce.	-			
			Certified Repair Station OG5R			-	-	-		
A.A.			Authorized Signature Miles	Brokeylin'		-				
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#### **MATERIAL REQUISITION**

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Mark Andrews Field Grand Forks, ND 58202		C	2				dosed	: _	9/2/	1 2005
Customer: EASE Acd#. 120		=				ss Insp (	<u> </u>	_	Init A	<del></del>
N#: N777ND AcftType: SR20	Mode	el: 5	SR20 Bill Meter:	971.1	A/F	Tach: 1	10.4		Init &	<u>v</u>
Part#         Serial           SR20         1258           IO-360-ES6B         35749           PHC-J3YF-1RF         FP18	98		<u>Description</u> AIRFRAME ENGINE (CIRRUS SR20) TEI PROPELLER	_EDYNE		970.9 970.9 970.9	B B	9	<u>Time</u> 70.8 70.8 70.8	
PD Problem / Discrepancy (PD)	ATA (	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	7	Tech	Insp
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				found to Certified	pe airw Repair	orthy and Station O	t to the is appro	vork red	performe for return	d and to service.
				Authoriz Date	d Sign	atura 1		1		>
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SFB

Tech:

Shop Code: F

Odegard School of Aerospace Sci. WKO#:

University of North Dakota

Grand Forks Intl. Airport

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Page 1 of \_

### **MATERIAL REQUISITION**

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- 120	INSPEC	TION SUPPLEMENT AND W	ORK ORDER			P	age 1	of	1_
Odegard School of Aerospace Sci. University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 . Customer: EASE Acats. 1249	WKO#: Tech: Shop Co Equip Co Opened:	1047739 MSB de: F ode: A R// 9/22/2005 10:25 Pa	OBTAIN AL INITIALS BE orts (opti) SW	FOR		i <u>G</u> dose	_	9-22	Wy.
N#. N777ND         AcftType:         SR20           Part#         Serial#           SR20         1258           IO-360-ES6B         357498           PHC-J3YF-1RF         FP186	8	Description AIRFRAME ENGINE (CIRRUS SR: PROPELLER	Meter: 1,007.1 20) TELEDYNE		Tach: : TSO 999. 999. 999.	. I 1 1	99	Init <u>//</u> Time 39.1 39.1 39.1	1515
PD Problem / Discrepancy (PD)	ATA CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	рΤ	Tech	Insp
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	niversity of North Dakota	Tec		DRK	INITI	ALS B	EFOR	E FILI	<u>vg</u>		20
	and Forks Intl. Airport			ode: A	(	Λ.					-
	ark Andrews Field			ode: E	R/A	XV				01	
Gr	and Forks, ND 58202		ened		Parts (opti)	5		Date	dosed:	9/2	9
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Cu	ıstomer: EASE Acct#. 12	45-051	8-47	1 Preliminary In				ess Insp			
N#	£N777ND AcftType: SR20	Mod	del:	SR20	Bill Meter: 1	,017.8	A/F	Tach:	45.4	Init	
Pa	rt# Seria	进		Description				ISO		al Time	
SF	20 1258			AIRFRAME				1,005.	8 1	,005.8	
10	-360-ES6B 35749	98		ENGINE (CIRRUS	SR20) TELE	EDYNE	Ξ,	1,005.	8 1	,005.8	
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-0	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs D	Tech	insp
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Odegard School of Aerospace Sc University of North Dakota Grand Forks Intl. Airport	Tech		1048021 CME de: F	OBTAIN ALI		E FILIN	<u>G</u>		(	10
Mark Andrews Field Grand Forks, ND 58202	Equi	р Са	ide: A R/A	V —			.0.		2-3	
	Ope	ned:	9/30/2005 12:24 Par	ts (opti)		Date	dips#d	-		705
Customer: EASE Acct#. 12	245-051	8-47				ss Insp	<u> </u>		0	
N#: N777ND AcftType: SR20	Mod	lel: S	SR20 Bill N	Meter: 1,017.8	A/F	Tach: 4	5.4		Init <u>C</u>	ME
Part# Seri	al#		<u>Description</u>			TSO	I	otal	Time	
SR20 1258			AIRFRAME			1,005.8			05.8	
10-360-ES6B 3574	198		ENGINE (CIRRUS SR	20) TELEDYNE	١.	1,005.8			05.8	
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1 Left door handle	52 10	1	Replaced broken	200/ 10	N	9/30	,5		ne,	
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			appliance identified above was repa accordance with current regulations	ired and inspected	n <b>i</b> t					
		200	Administration with respect to the w found to be airworthy and is approved the certified Repair Station OGSTAGO	ork performed and	1					
		T	Authorized Signature	ull	1			T		
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Odegard School of Aerospace Sci. University of North Dakota Grand Forks Intl. Airport	Tech Shop	: Co	MSB (N)	TAIL	V ALL S BE	FORE	E FILING	<u> </u>		B	p
Mark Andrews Field Grand Forks, ND 58202			de: A R/A 10/10/2005 17:47 Parts (o	ptl)	800	t	Date	closed.	_1	010-0	5
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Customer: EASE Acd#: 124				- 1.0			Tach: 5			Init M	413
N#: N777ND AcftType: SR20	Mod	el: S	R20 Bill Meter	r: 1,0	124.8	~'			+-1	Time	
Part# Serial	<u>#</u>		Description				TSO 1,011.1			11.1	
SR20 1258	<b>.</b>		AIRFRAME ENGINE (CIRRUS SR20) T	ELE	DYNE	1	1,011.1	1	1,0	11.1	
10-380-ES6B 35749			PROPELLER				1,011.1	1	1,0	11.1	
PHC-J3YF-1RF FP186	JOD		1						_		
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	DT	Tech	Insp
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1 Left fuel guage fluctual	40	1	Cleaned ground connect	ton	40	/-	•	-	H		
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during flight			discrepency								
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	INS	PEC	TION SUPPLEMENT AND WORK O	RDER			Page	1 of	<u></u>
Odegard School of Aerospace Sci.	WKC	)#:	10.100	AIN AL			·		( ^ -
University of North Dakota	Tech	1:	MSB <u>INIT</u>	ALS B	EFOR	E FILIN	<u> 90</u>		χų
Grand Forks Intl. Airport Mark Andrews Field			de: F	$\phi$					- (
Grand Forks, ND 58202			de: A R/A	17		Date	dosed:	10-11	-05
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Customer: EASE Acct#. 124	5-0518	3-47	1 Preliminary Insp	In F	rogre	ess Insp	<b>GO</b>		
N#: N777ND AcftType: SR20	Mod	el: S	BIII Meter:	1,026.3	A/F	Tach:	51.7	Init 🖊	nsB
Part# Serial#	<del>!</del>		Description			TSO		al Time	
SR20 1258			AIRFRAME			1,012		,012.1	
IO-360-ES6B 357498	8		ENGINE (CIRRUS SR20) TEL	LEDYNE		1,012.		,012.1	
PHC-J3YF-1RF FP188	8B		PROPELLER			1,012	.1 1	,012.1	
PD Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs D	Tech	Insp
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1 left fuel googs reads	40	1	Removed and tested fuel	40	N	10-11	1.5	msB	Coll
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			grace cannon pluy, ops.ck	1	1				
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			discrepency	-	┼	-	-	-	+-
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	7		found to be a Certified Re	airworthy a	and is	approved i	for return to	service.	
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		INS	SPEC	CTION SUPP	LEMENT A	ND WORK OF	RDER			Pa	ge 1	of	
Odegard School of A University of North I Grand Forks Intl. Air Mark Andrews Field Grand Forks, ND 58	Dakota rport	Tec Sho Equ	h: p Co		005 16:49	R/A	1	FOR		dosed	s: <u>'</u>	10-17	S∳ -05
Customer: EASE	Acct#: 12		_		reliminary In	sp			Tach:			Init 5	<u></u>
N#: N777ND AcftT; Part# SR20 IO-360-ES6B PHC-J3YF-1RF	ype: SR20 Seria 1258 35749 FP18	## 98	iei: ˈ		RAME	Bill Meter: 1			TSO 1,014. 1,014. 1,014.	. I	1,0 1,0	Time 114.2 114.2 114.2	<b></b>
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Grand Forks Intl. Airport	Tec			TIALS E	BEFO!	RE FILI	NG			١.
Mark Andrews Field			ode: F	XIn						4
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	Ope	ened		ti)		Dat	e dose	d:	10-20	05
Customer: EASE Acct#: 13	245-051	18-47	71 Preliminary Insp	In	Progn	ess Insp	DE	<u>'</u>		
N#: N777ND AcftType: SR20	Мо	del:	SR20 Bill Meter:	1,029.1	A	F Tach:	53.8		Init d	W
Part# Seria	al#		Description			ISC	Σ Т	ota	l Time	
SR20 1258	3		AIRFRAME			1,014	76		014.2	
IO-360-ES6B 3574	98		ENGINE (CIRRUS SR20) TE	LEDYN	E٠	1,014	.2		014.2	
PHC-J3YF-1RF FP18	368B		PROPELLER			1,014	.2	1,0	014.2	
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GFK Flight Support, Inc. 2467 Air Cargo Dr. Grand Forks, ND 58203 Phone 701-772-5504 Fax 701-772-8917 www.flygfk.com

**Shop Order:** Acct Number:

**05-4267** PO 413695

Opened: 10/19/2005

Closed:

Sold To: Odegard School For Aerospace UNIVERSITY OF NORTH DAKOTA

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1	Aircraf	t Number:		777ND		Type:C	IRRUS I	DESIGN	S/N:	1258		
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Di	iscrep Probl r/h lar Actio install screp Probl L/H la	ancy: 3 em: ake pads worn n Taken: ed brake pads ancy: 4 em: ding gear strut n Taken: ed new stand co	to limi	g stand off to					Total For	This Discrep	ancy: \$	

Replaced nut plate.

Part Number Description Credit **Quantity Units Unit Price Extended** 50803-001 Wellnut, 10-32, Short Cirrus 1.00 Each 1.500 \$ 1.50 Total For This Discrepancy: \$ 1.50

Printed: 10/20/2005 Shop Order: 05-4267 Page: 1 of 2

### GFK Flight Support, Inc.

2467 Air Cargo Dr. Grand Forks, ND 58203 Phone 701-772-5504 Fax 701-772-8917 www.flygfk.com

<u> </u>	Total For This Discrengence	N/C
	Total For This Discrepancy.	1470
		0.11
	Misc Supplies:  \$	0.11
		0.11
1.50 Misc Supplies:	2	0.11
		1.61
SubTotal:	\$	
Total Charges:	\$	1.61
	g: \$	1.61
	SubTotal: Total Charges:	Total For This Discrepancy: \$  Misc Supplies: \$  1.50 Misc Supplies: \$  SubTotal: \$  Total Charges: \$

Thank you for stopping at GFK Flight Support. Every effort has been made to make your visit an enjoyable experience. If for any reason we have not met your expectations of quality of service, please let us know by contacting Bob Martin at 701-772-5504. We appreciate your business and look forward to serving you in the future.

Celebrating 12 years of Service November 2005!

1 certify that this hir frame has been inspected in accordance with a 100 Hr. inspection and is in an airworthy condition.

I certify that this Owe land has been inspected in accordance with a 100 by inspection and is in an airworthy condition.

Z659389AP

I certify that this <u>Propeller</u> has been inspected in accordance with a <u>100 br</u> inspection and is in an airworthy

condition / Sub

Z659389H

Printed: 10/20/2005

Shop Order: 05-4267

Page: 2 of 2

10/18 / 2005 ACFT NO. N 777 NO W/O NO. 10 48485 **MATERIAL REQUISITION** 

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	mes	M\$ 35769-21 M\$ 35 <b>\$</b> 69-11 m-674		Description	Quan.	MCC I	Return Y/N	Batch #
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	INSP	ECT	ION SUPPLEMENT AND WORK O	RDER			Pag	ge 1 of	,
Odegard School of Aerospace Sci. University of North Dakota Grand Forks Intl. Airport	WKO: Tech: Shop			TAIN ALL		E FILIN	<u>IG</u>	\	84
Mark Andrews Field Grand Forks, ND 58202	Equip Open	Coc		(1)	Ju	Date	closed	10/201	05
Customer: EASE Acct#: 124	5-0518	-471	Preliminary Insp	In F	rogre	ss Insp			
N#: N777ND AcftType: SR20	Mode	l: S	R20 Bill Meter:	1,029.1	A/F	Tach:	53.8	Init <u>P</u>	DK
Part#         Serial#           SR20         1258           IO-360-ES6B         35749           PHC-J3YF-1RF         FP186	8		<u>Description</u> AIRFRAME ENGINE (CIRRUS SR20) TE PROPELLER	LEDYNE		1,014 1,014 1,014	2	tal Time 1,014.2 1,014.2 1,014.2	
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Page 1 of \_\_\_\_

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Page 1 of

Mary ND 28505

Center for Aerospace Sciences
University of North Dakota
Grand Forks, North Dakota 58202

### **MATERIAL REQUISITION**

10 - 25 - 65 ACFT NO. 777WD W/O NO. 104 8596

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Grand Forks, ND 58202		Oper		de: A 10/17/2005 17:27	Parts (opti)		Ju	) Date	dosed	d: _/	10-3	27-05
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Customer: EASE ACCO	r. 1240		_								I-it Y	145
N#. N777ND AcftType: SF	20	Mode	el: S	R20	Bill Meter: 1	,029.1	AVE	Tach:			Init <u>J</u>	75
Part#	Serial#	ŧ		Description				ISO			<u>Time</u> 114.2	
SR20	1258			AIRFRAME			• .	1,014.			14.2	
10-360-ES6B	357498			ENGINE (CIRRUS	S SR20) TELE	EDYNE	•	1,014. 1,014.			14.2	
PHC-J3YF-1RF	FP186	88		PROPELLER				1,014.	_			
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+				Administration with respect to found to be already and is Certified Repair Station OG	approved for retu	m to se	MCB.			Н		
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Odegard School of Aerospace Sci. University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202 . Customer: EASE Acct#: 126	Shop Equi Oper	n: o Co p Co ned:	SFB INITIA  de: F  ode: A R/A  11/8/2005 15:42 Parts (opti)	90	JW1	Date	dosed	ı: <u>11/02</u>	
N#: N777ND         AcftType:         SR20           Part#         Serial           SR20         1258           IO-360-ES6B         35749           PHC-J3YF-1RF         FP18	## 98	el:	Description AIRFRAME ENGINE (CIRRUS SR20) TELE PROPELLER			TSO 1,038 1,038 1,038	. I	Init otal Time 1,038.0 1,038.0 1,038.0	\$\$\frac{1}{2}
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t Lt fuel gty guage doesn't work.	7		91-213 (d). Ful			11/08	,5	Cez	al
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	a a A	oplia ccord dmin dund	the aircraft airframe, aircraft engine, propeller ce identified above was repaired and inspected ance with current regulations of the Federal Avistration with respect to the work performed and to be airworthy and is approved for return to see d Repair Station OG5R092N	d in viation					
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Page 1 of \_\_\_\_

Odegard School of Aerospace Sci. WKO#:

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OBTAIN ALL

University of North Dakota

Grand Forks Intl. Airport

N#: N777ND AcftType: SR20

Tech: CSG INITIALS BEFORE FILING

Shop Code: F

Opened:

Equip Code: A

Model: SR20

Bill Meter: 1,065.9

Date closed: 11-16-0-

Customer: EASE

Mark Andrews Field

Grand Forks, ND 58202

Acct#: 1245-0518-471

Preliminary Insp M//5

ENGINE (CIRRUS SR20) TELEDYNE ·

In Progress Insp Wolf

Init (56

Part#

Description

11/14/2005 14:56

A/F Tach: 83.5

SR20

Serial#

TSO 1,043.9 **Total Time** 1,043.9

10-360-ES6B

1258

AIRFRAME

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PHC-JBYF-1RF

357498 FP1868B

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		INSPECT	ION S	UPPLEMENT AND WORK ORDER		Page _	2 0	2			As. NO
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					Date	11/	16/0	*	-		+-



# ROCHESTER GAUGES, INC.

11616 HARRY HINES BLVD. • PO BOX 29242 • DALLAS, TX 75229 (972) 241-2161 • FAX (972) 620-1403

ISO 9001 AND QS-9000 REGISTERED

## CERTIFICATE OF COMPLIANCE

CIRRUS DESIGN CO. OCTOBER 25, 2005

Customer Purchase Order No: \*/57816/REWORK Rochester Register/Packing Slip NO: 59504.001 DESCRIPTION: DUAL FUEL REC'R

> Quantity 1

ROCHESTER P/N 4030-12034 FQ S/N: 532

CUST. PN 12615-002S

REV: (D) 10/11/00

This is to certify the products referenced herein meet all applicable Rochester Specifications and/or Prints. The listed product is traceable by their listed serial numbers. This shipment has been inspected and passed by our Quality Assurance Department Satisfactorily.

reggy Bryant, Qualify Department





Center for Aerospace Sciences
University of North Dakota
Grand Forks, North Dakota 58202

#### **MATERIAL REQUISITION**

AT	E_1/	/14/05ACFT N	NO. NO. NO. NO. NO. NO. NO. NO. NO. NO.											
PD	PD MI Part Number		Serial Number	Description	_									
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Grand Forks, ND 58202	Equip C	ode: A	R/A	DY		/				
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Customer: EASE Acct#. 2	2059-4223-0	Preliminary In	sp Ma	ln l	Progr	ess Insp	all			
N#: N777ND AcftType: SR20	Model:	SR20	Bill Meter: 1	,067.3	A	F Tach:	84.8		Init <u>I</u>	265
Part# Ser	ia##	Description				TSC	2 1	<b>Tota</b>	l Time	
SR20 125	i8	AIRFRAME				1,045	.2	1,0	45.2	
IO-360-ES6B 357	498	ENGINE (CIRRUS	SR20) TEL	EDYNE	Ē •	1,045	.2	1,0	45.2	
PHC-J3YF-1RF FP	18 <b>6</b> 8B	PROPELLER				1,045	.2	1,0	45.2	
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Odegard School of Aerospace Sci. WKO#.

University of North Dakota Grand Forks Intl. Airport Page 1 of \_

Odegard School of Aerospace Sc University of North Dakota Grand Forks Intl. Airport Mark Andrews Field Grand Forks, ND 58202	Sho Equ Ope	op Co uip C ened	MES INI		BEFOR		dose	d: <u>11-23</u>	N-05
N#: N777ND AcftType: SR20		_	SR20 Bill Meter		A/I	Tach:	83.5	Init <u>M</u>	15
Part#         Seria           SR20         1258           IO-360-ES6B         3574           PHC-J3YF-1RF         FP18	98		Description AIRFRAME ENGINE (CIRRUS SR20) TE PROPELLER	ELEDYN	E•	TSO 1,043. 1,043. 1,043.	9	otal Time 1,043.9 1,043.9 1,043.9	
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Page 1 of 2

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<b>]#</b> :	אינר <u>ר</u> (N)	Work Order #: 1049273										
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818	3/998-9811 7.	8.	1	9.		10.	111.		12.
	Description	Part No.	1.	Eligibi	litv*	Otv.		Batch No.	Status/Work
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14.	Certifies the items identified al	above were manufact	tured in con	formity to:	101				n specified in Block 13.
[ ] Ar	portured design data and are in a				1				k identified in Block 12
) [] WF	pproved design data and are in co	ondition for sale of	operation.		. (6			d in accordance with	Title 14, Code of items are approved for
[ ] No	on-approved design data specified	d in Block 13.			return to s		3 and in respec	t to that work, the	items are approved for
15.	Authorized Signature	*		oproval/ rization	20. Aut	thorized	Signature	. /	21. Approval / Certificate No.: WU2R279L
17.	Name (Typed or Print	ted):	18. Da	ate:(m/d/y)		me (Typed GREG MGR			23. Date:(m/d/y) DCT/06/2005
			User/	Installe	r Respon	nsibiliti	es		9
Where the Block 1, i Statements	sportant to understand that the exi- suser/installer performs work in accord- it is essential that the user/installer s in Block 14 and 19 do not constitute regulations by the user/installer befor	dance with the national er ensures that his/her installation certifica	al regulations of airworthiness cation. In all of	of an airworthings accepts parts/c	components/assem	different than the mblies from the air	airworthiness aut	thority of the country s	eified in Block 1.

\*Installer must cross-check eligibility with applicable technical data.

FAA Form 8130-3 (6-01)

NSN: 0052-00-012-9005

```
TEARDOWN REPORT:
                                                        WORK ORDER: R59967
          KA AVE.
                                                              Page:
        E, CA 91324-3293
                                                              Date: 06/30/05
       18/998-9811
                                                           Rec. by: ØREL
     ty....: R
                 REGULAR
    house...: 01
                 DUKES REPAIR STATION
                                                  Warranty months.: 12
   tomer...: 125
                   CIRRUS DESIGN CORPORATION
                                                  Warranty hours..: 0
  stomer PO.: 55026
                                                  Warranty Expires: 05/31/06
 ontact....: CARRIE PANK
                                                  Date Installed..: 05/31/05
 Telephone...: 218-727-2737
WD Type .... REP REPAIRED
                                                  Price Advise: N
Manufacturer: DUKES
A/C type...:
Item number.: 5217-00-3
                                          FUEL BOOST PUMP
Ext Item Num: 5217-00-3
Quantity...: 1
                              Cond: R
Prev R/O Agt:
                          -- Serial number(s) -----
1--
2043
Item Received as:
                               S/N Received as:
                                          Aircraft Tail Numb.:
Part Date Of Manufac.: 03/16/05
                                          Time Since Overhaul:
Cycles Since Overhaul:
                                          Time Since New....:
Cycles Since New....:
                                          Last R/O number....:
Date of Last R/O....:
                                          Warranty Requested.: Y
Damaged Container...: N
                                         Disassembled: N Modified: N
Visual Damage..... N
                                         ND Test.... Y
Parts Missing...... N
                   --- CUSTOMER REPORTED DISCREPANCIES -----
     ENGINE DIES ON LANDING ROLL WITH POWER LEVER AT IDLE OF
     MIXTURE LEVER IS NOT FULL FORWARD.
                _____ CUSTOMER INSTRUCTIONS -----
     REQUEST WARRANTY CONSIDERATION REPAIR AS NECESSARY
             ----- INITIAL INSPECTION -----
                                               Repairable..... Y
Technician: 00PV VATCHER
                                               Warranty Approved.: Y
Major Damage...: N Pass Initial Test.: F
                                               Approved/Denied by: 00GL
                      Internal Failure..: Y
Excessive wear.: N
I----- INITIAL INSPECTION ANALYSIS AND TEST RESULTS
     DISCREPANCY CONFIRMED, UNIT FAILS TO MEET REQUIRMENTS
     OF ATP. BOTH HIGH AND LOW BOOST WERE
     BELOW MIN. SPEC'S. RESET TO ATP.
             ----- FAILURE REASON CODES -----
       FLOW FOUND TO BE BELOW SPEC.
67
                        ---- FINAL ANALYSIS -----
                          HIDDEN DAMAGE INSPECTION
                           CORRECTIVE ACTION CODE
     REPAIRED IN ACCORDANCE WITH MANUFACTURES CMM
     OR APPROVED DRAWINGS. REPLACED ALL PARTS AS LISTED.
                            FINAL TEST RESULTS
                                 mand/ INSP. DATE: 10/06/05
     UNIT FUNCTIONS PER ATP 5217-04-3, REV. A
FINAL INSP. BY: 00GM MANDEL
```

Form number: DI-105

DUKES, INC. ACCEPTANCE TEST PROCEDURE

ATP 5217-04-3 DATA SHEET REV. A

6-17-04

DUKES, INC. P/N 5217-00-3 S/N: 3045			,	
REQUIREMENT				
TO THE PROPERTY OF THE PROPERT	- 015		PASS	FAIL
Pump meets all requirements of outline drawing 521 /-00-3, metud	ing difficusions.		المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية	
identification, workmanship, and Weight.				
3.2 DECOUDE SUIDE & EXTERNAL LEAKAGE TEST		111	PACE	FAIL
Inler pressure at 50 psig at 70°F and outlet capped. No leakage as e	videnced by no t	ubbles.	PASS	-
Inlet pressure at 50 psig at 70°F and outlet capped. No evidence of	damage or defor	mation.	PASS	FAIL
3.3 CURRENT DRAW		-		-
4.0 amperes maximum at 28 VDC.	ACTUAL	2,0	PASS	FAIL
		<u> </u>		
3.4 RELIEF VALVE SETTING (HIGH BOOST NO FLOW)				,
24 VDC and no flow, the pump pressure shall be 23.0 psig	ACTUAL	23	PASS	FAIL
maximum.		00		
3.5 HIGH BOOST FUNCTIONAL TEST				
28 VDC and pressure at 16 psig, the pump flow shall be 42 GPH	ACTUAL	400	PASS	FAIL
minimum.	\ \	70		
3.6 LOW BOOST FUNCTIONAL TEST				
28 VDC and 19 GPH flow, the pump pressure shall be 4.0 to 6.0	ACTUAL	55	PASS	FAIL
psig.		3,0		
28 VDC and 3 GPH flow, the pump pressure shall be 9 psig	ACTUAL	フて	PASS	FAIL
maximum.		1,0		
TEST TECHNICIAN:				0-05
QA INSPECTOR:		COREJ D	ATE: 10	6700

2/2/

G	Grand Forks, ND 58202				1049397 DPS ode: A ode: A		ALS BE	_		E FILING 8				
			Ope	ned:	11/25/2005 10:34	Parts (opti	} —		Date	closed	1/-2	5-05		
Cı	ustomer: EASE	Acct#: 205	5 <del>9-</del> 422	3-0	Preliminary Ir	rsp XX	In <sup>\</sup> F	rogre	ss Insp .	KHF	2			
= N#	#. N777ND AcftType	: SR20	Mod	lel: \$	SR20	Bill Meter: 1	,066.2	A/F	Tach: 8	33.5	Init_	DP3		
Pa	nrt#	Serial	#		Description	•			TSO	Io	tal Time			
SF	20	1258			AIRFRAME				1,043.	9	1,043.9			
10	-360-ES6B	35749	98		ENGINE (CIRRU	S SR20) TELI	EDYNE	•	1,043.	9	1,043.9			
PH	IC-J3YF-1RF	FP186	88B		PROPELLER				1,043.	9	1,043.9			
PC	Problem / Discrepar	ncy (PD)	ATA	CA	Corrective Action (CA)		ATA	ACC	Date	Hrs	Tech	Insp		
<u> </u>	"Inverter	Config	37/20	1	Configure	4	34/20	N	1/25	.5	DPS	MP		
	error" disp				maintenance									
	on EHSI				on EHSI f	. ~								
					400Hz inve				,					
					EHSI ges		c							
					900d-									
2	GPS DATABA	SE	34/50	1	J	430	34/50	N	1/25	0.3	2	HHP		
	uppates D	UE			AND AVIDYNE	DATABASES	.,	*						
							"			1				
					I certify the aircraft airframe appliance identified above w accordance with current reg	vas repaired and ulations of the Fe	inspecte	in ation				+		
1					Administration with respect found to be airworthy and is Certified Repair Station OG	approved for ret	med an	усе.						
1				$\dashv$	Authorized Signature	A C	ف		<del>                                     </del>	-		+		
+			-7	$\dashv$		<del></del>		F	_			-		
4			- 1	-	/			_						
4	3													
- 1			1	I			1	1		1	1 1			

Page 1 of \_

Odegard School of Aerospace Sci. WKO#: 1049528 OBTAIN ALL	
University of North Dakota Tech: JDR <u>INITIALS BEFORE FILING</u>	\n
Grand Forks Intl. Airport  Mark Andrews Field  Shop Code: F	٥Ψ
Grand Forks, ND 58202 Equip Code: A R/A	
Opened: 12/3/2005 8:24 Parts (optl) Date clossed: /J-	4-2105
Customer: EASE Acct#. 2059-4223-0 Preliminary Insp	
N#: N777ND AcftType: SR20 Model: SR20 Bill Meter: 1,071.2 A/F Tach: 88.0	nit Vin
Part# Serial# Description TSO Total Ti	me
SR20 1258 AIRFRAME 1,048.4 1,048	.4
IO-360-ES6B 357498 ENGINE (CIRRUS SR20) TELEDYNE 1,048.4 1,048	.4
PHC-J3YF-1RF FP1868B PROPELLER 1,048.4 1,048	.4
PD Problem / Discrepancy (PD) ATA CA Corrective Action (CA) ATA ACC Date Hrs DT Te	ech Insp
I while getting out 10 1 removed sun visor 10 N 14 8 W	· A
copilate view hooked new part	7
	$\dashv$
on just aus snappel and defenced an	
in fry (1.217 C1).	
right with sun visor ing.	
i certify the aircraft airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in	
accordance with current regulations of the Federal Aviation	
Administration with respect to the work performed and found to be airworthy and is approved for return to seguing.	
Certified Repair Station OG5R092N	
Authorized Signature	
<del></del>	
	-
	+

Page 1 of \_/

	INSPEC	TION SUPPLEMENT A	ND WORK O	RDER			Page	1 of _	
degard School of Aerospace Sci. Iniversity of North Dakota Frand Forks Intl. Airport Mark Andrews Field Brand Forks, ND 58202	WKO#. Tech: Shop Cor Equip Co Opened:	de: A 12/7/2005 20:39	R/A Parts (opti	) <del> </del> 2	EFOR	/ Date	closed:	12/0	<b>X4</b> 07/03
Dustomer: EASE Acct#: 205		Preliminary l	Bill Meter: 1			Tach:		Init_	<del>6</del> 3
N#. N777ND         AoftType:         SR20           Part#         Serial           SR20         1258           10-360-ES6B         35749           PHC-JSYF-1RF         FP18	33	Description AIRFRAME ENGINE (CIRRU PROPELLER				TSO 1,051. 1,051. 1,051.	Tota 2 1, 2 1,	051.2 051.2 051.2	
PD Problem / Discrepancy (PD)	ATA CA	Corrective Action (CA	<b>()</b> ()	ATA	ACC	Date	Hrs DT	Tech	insp
1 Rt survisor	2510 1	Installed new	U blade	2510		12/01	.4	EB	
broken		I							
10 Y 0 JCCN		per Ch 25 - Cirrus Ma	in t			74			
		Cirrus Ma	caci						
		Manual							
		6001	, ,						
		Ad P 285676	lun						
		AdP 285676	72	1,5	3				
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Center for Aerospace Sciences
University of North Dakota
Grand Forks, North Dakota 58202

DATE 12/7/05 ACFT NO. 7 7700 W/O NO. 1049669

### **MATERIAL REQUISITION**

PD MI Part Number Serial Number Description Quan. MCC Return Batch # V/1 5-B 12695-003 Und- 1 5736