INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1074415
Tech: CEC
Shop Code: F
Equip Code: A
Opened: 1/9/2009 15:19

OBTAIN ALL INITIALS BEFORE FILING

R/A:
Parts (opti):
Date closed: 1-9-09

ustomer: UND Acct#: 205922230 Preliminary insp ____ In Progress insp ____

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,606.4 A/F Tach: 5,708.8 Init

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	5,881.2	5,881.2
)-360-C1C6	L2718951A	ENGINE (ARROW)	1,199.9	2,747.6
2D34C213	002282	PROPELLER	1,737.8	5,202.1

D	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
	Right flap static wick found on ground during post flight	23/60	1	Replaced static wick	23/60	N	1/9	.5		[illegible]	
				[signature]	A&P 3021720						

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1074245
Tech: SJC
Shop Code: F
Equip Code: A
Opened: 1/6/2009 8:03

OBTAIN ALL INITIALS BEFORE FILING

R/A SJ
Parts (opt!) ____
Date closed: 1/6/09

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,591.1 A/F Tach: 5,697.7 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,870.1	5,870.1
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,188.8	2,736.5
B2D34C213	002282	PROPELLER	1,726.7	5,191.0

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	left tire flat	3240	1	replaced wheel tire assy	3240	N	1/6	.5		SR	

[signature]
A&P 3197067

1. Approving National Aviation Authority/Country:	2.
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**

4. Organization Name and Address:

Michelin North America, Inc.
515 Michelin Road
Greenville, S.C. 29605

Michelin Siam Co., Ltd
57 Moo 6 Nongplakradee Rd.
Nongplamore, NongKhae, Saraburi 18140 (TSOA PT 1283CE-DX)

5. Work Order/ Con
Invoice Number:

DIDS8277N1

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	**6.00-6/6/120**	**072-314-0**	NA	1	**8150W00126**	**NEW**

13. Remarks. :

DIRECT SHIPMENT AUTHORIZATION

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21.Approval/ Certificate Number:
	DMIR 511237CE	NA	NA
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
M.Jittakorn Sukto	**Jun/04/2008**	NA	NA

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts part/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1074279
Tech: NJG
Shop Code: F
Equip Code: A
Opened: 1/6/2009 17:42

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt): JWG
Date closed: 1/6/09

ustomer: UND Acct#: 205922230 Preliminary Insp MSB In Progress Insp MSB

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,591.1 A/F Tach: 5,697.7 Init NTG

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	5,870.1	5,870.1
-360-C1C6	L2718951A	ENGINE (ARROW)	1,188.8	2,736.5
2D34C213	002282	PROPELLER	1,726.7	5,191.0

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
battery dead	24 30	1	charged battery, reinstalled on aircraft	24 30	N	1/6	.5		NTG	MSB
starter bendix wouldn't engage PN# M26222 SN# H111351	8000	1	removed + replaced starter, ops check good PN# 149-NL SN# FN-450816 updated weight + balance + equipment list	8000	N	1/6	2.2		NTG	MSB
landing light inop	33 00	1	changed landing light, ops check good	33 00	N	1/6	.3		NTG	MSB

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature [signature]
Date 1-6-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1074458
Tech: MRS
Shop Code: F
Equip Code: A
Opened: 1/12/2009 8:33

OBTAIN ALL INITIALS BEFORE FILING

R/A MM
Parts (optl) _____
Date closed: 1/13/09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,611.0 A/F Tach: 5,712.3 Init MRS

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,884.7	5,884.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,203.4	2,751.1
B2D34C213	002282	PROPELLER	1,741.3	5,205.6

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Phase 2 Insp Due	05-20	1	FOR BILLING PURPOSES ONLY ~~Work Performed by:~~ GFK Flight Support See log Entry attached below for sign off	05-20	N	1/13	0.5		MRS	

GFK FLIGHT SUPPORT

GRAND FORKS INTERNATIONAL AIRPORT
2467 AIR CARGO DRIVE • GRAND FORKS, ND 58203

Air Frame Logbook Insert

Date: 1/13/2009; Aircraft: 289ND; Type: ARROW; S/N: 2844039; Hobbs: 7611.00; Tach: 5712.30; Total Time: 5712.30; Engine - Type: IO-360-C1C6, S/N: L2718951A, Time: 1203.40; Prop - Type: B2D34C213, S/N: 002282, Time: 1741.30; Work Done At - Airframe Time: 5712.30,, Engine Time: 1203.40,
Completed a Phase 2 inspection in reference to a U.N.D. progressive inspection checklist, comp. test: #1 75/80, #2 77/80, #3 75/80, #4 78/80, drained oil and removed filter, serviced engine with 8 qts. Aeroshell 15W50 and a CH48110-1 filter, removed and replaced r/h mag, p/n on and off 4370, s/n off 05121412, s/n on 07041436, removed and replaced l/h mag, p/n on and off 4372, s/n off 07101917, s/n on 08012322, C/W SB UND8 wing spar chafing, no defects noted, run up and leak check good.

Bob Martin
A&P471824633IA

"I certify that in accordance with a progressive inspection program, a routine inspection of Cabin, fuselage, Tail, wings, gear and a detailed inspection of engine and prop were performed and this Aircraft is approved for return to service"

Bob Martin

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1074633
Tech: JRK
Shop Code: F
Equip Code: A
Opened: 1/15/2009 19:40

OBTAIN ALL INITIALS BEFORE FILING

84

R/A 84
Parts (optl) 84

Date closed: 1-15-2009

Customer: UND Acct#: 205922230 Preliminary Insp MSB In Progress Insp JRK

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,619.3 A/F Tach: 5,717.4 Init JRK

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,889.8	5,889.8
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,208.5	2,756.2
B2D34C213	002282	PROPELLER	1,746.4	5,210.7

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Attitude failure in flight. PN 102-0074-03 SN 27C0163G	34/20	1	Removed & replaced attitude indicator ops ck good PN 102-0074-03 SN 893656	34/20	N	1/15	1.5		JRK	JRK

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.

Authorized Signature

Date 1-15-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1074805
Tech: JRK
Shop Code: F
Equip Code: A
Opened: 1/23/2009 15:45

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt'l)

Date closed: 1/23/09

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,636.9 A/F Tach: 5,730.0 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,902.4	5,902.4
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,221.1	2,768.8
B2D34C213	002282	PROPELLER	1,759.0	5,223.3

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Engine would not start.	7200	1	Started engine Scott F Baker A&P 2856702	7200	N	1/23	.3			

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1074834
Tech: CEC
Shop Code: F
Equip Code: A
Opened: 1/24/2009 15:05

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) ____
Date closed: 1-25-09

84

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,640.9 A/F Tach: 5,732.5 Init [initials]

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,904.9	5,904.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,223.6	2,771.3
B2D34C213	002282	PROPELLER	1,761.5	5,225.8

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	L/H break pressure is un-even on the pilots side,	32/40	1	Bleed brakes and found L/H side was still bad. found L/H brake caliper leaking. Removed & replaced L/H brake caliper piston O-rings.	32/40	N	1/24	1.0		[initials]	
			2	Installed caliper assy. Bleed out old fluid and serviced reservoir to specs. ops check good, leak check good		N	1/25	1.0		[initials]	

[signature] A&P 3021720

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075182
Tech: CEC
Shop Code: F
Equip Code: A
Opened: 2/2/2009 13:53

OBTAIN ALL INITIALS BEFORE FILING

R/A _____
Parts (opt) _____

84

Date closed: 2/2/09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,674.1 A/F Tach: 5,756.1 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,928.5	5,928.5
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,247.2	2,794.9
B2D34C213	002282	PROPELLER	1,785.1	5,249.4

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	L/H fuel strainer leaking.	28/30	1	Replaced L/H fuel sump. Leak check good	28/30	N	2/2	.5			
2	pitot heat failed to heat with in 5 mins	34/10	1	Replaced Fwd & Aft pitot elements. ops check good	34/10	N	2/2	.7			

AP 3021720

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard ~~School~~ of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075127
Tech: JDL
Shop Code: F
Equip Code: A
Opened: 1/31/2009 9:37

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) _____
Date closed: 2-1-09

Customer: UND Acct#: 205922230 Preliminary Insp MES In Progress Insp MES

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,670.8 A/F Tach: 5,753.9 Init [initials]

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,926.3	5,926.3
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,245.0	2,792.7
B2D34C213	002282	PROPELLER	1,782.9	5,247.2

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	After landing felt a shutter on left and right mains while braking	32 40	1	Removed and replaced brake discs and linings on left and right main wheels. Removed and replaced right main tire and tube.	32 40	N	1/31	2.5		[initials]	MES
		32 40	2	Taxied aircraft, braking checks good at this time	32 40	N	2/1	1.0		[initials]	MES

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 and is airworthy and approved for return to service.
Certified Repair Station [illegible]

Authorized Signature [signature]
Date 2/1/9

1. Approving National Aviation Authority/Country:	2.
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**

4. Organization Name and Address:

Michelin North America, Inc.
515 Michelin Road
Greenville, S.C. 29605

Michelin Siam Co., Ltd
57 Moo 6 Nongplakradee Rd.
Nongplamore, NongKhae, Saraburi 18140 (TSOA PT 1283CE-DX)

5. Work Order/
Invoice Number:
DIDS8273N12

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	**6.00-6/6/120**	**072-314-0**	NA	1	**8149W00265**	**NEW**

13. Remarks. :

DIRECT SHIPMENT AUTHORIZATION

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No:	20. Authorized Signature:	21. Approval/ Certificate Number:
	DMIR 511237CE	NA	NA
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
M.Jittakorn Sukto	**Jun/03/2008**	NA	NA

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts part/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075182
Tech: CEC
Shop Code: F
Equip Code: A
Opened: 2/2/2009 13:53

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)

Date closed: 2/2/09

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,874.1 A/F Tach: 5,756.1 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,928.5	5,928.5
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,247.2	2,794.9
B2D34C213	002282	PROPELLER	1,785.1	5,249.4

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	L/H fuel strainer leaking.	28/30	1	Replaced L/H fuel sump. Leak check good	28/30	N	2/2	.5			
2	pitot heat failed to heat with in 5 mins	34/10	1	Replaced Fwd & Aft pitot elements. ops check good	34/10	N	2/2	.7			

A&P 3021720

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075194
Tech: JRK
Shop Code: F
Equip Code: A
Opened: 2/2/2009 17:51

OBTAIN ALL INITIALS BEFORE FILING

R/A 99
Parts (optl) 1
Date closed: 2/2/09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,674.1 A/F Tach: 5,756.1 Init JRK

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,928.5	5,928.5
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,247.2	2,794.9
B2D34C213	002282	PROPELLER	1,785.1	5,249.4

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	Engine no start.	80 00	1	Started Aircraft, ops check good.	80 00	N	2/2	.4		JRK	
				A&P # 3108086 Joseph Krump Joseph Krump							

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand ~~Forks Intl~~. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075240
Tech: BTM
Shop Code: F
Equip Code: A
Opened: 2/3/2009 10:42

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (cntl)
Date closed: 2/3/09

Customer: UND Acct#: 205922230 Preliminary Insp In Progress Insp

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,674.5 A/F Tach: 5,757.5 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,929.9	5,929.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,248.6	2,796.3
B2D34C213	002282	PROPELLER	1,786.5	5,250.8

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	nose tire flat.	3240	1	installed T1 Tube ~~TR67~~ PN 302-013-400	3240	N	2/3	.3		SO	
2	tire flat - rear off bead	3240	1	installed 505C66-5 S/N 83440054 installed wheel cary & safetied	3240	N	2/3	.3		SO	

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature
Date 2-3-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075244
Tech: ADC
Shop Code: F
Equip Code: A
Opened: 2/3/2009 12:37

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt'l)
Date closed: 2-3-09

Customer: UND Acct#: 205922230 Preliminary Insp In Progress Insp

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,876.5 A/F Tach: 5,757.5 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,929.9	5,929.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,248.6	2,796.3
B2D34C213	002282	PROPELLER	1,786.5	5,250.8

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	RH Fwd Cowl latch broken	71/10	1	Removed broken Cowl latch & Installed Serviceable latch Canned from A/C N40ND w/o 1075163 PD#2	71/10	N	2/3	.2			
						Z	2/3	.2			
2	Top Cowl O/I Door Latch Holes Worn Out	71/10	1	Removed & Replaced O/I Cover	71/10	N	2/3	.2			
							2/3	.2			

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

Authorized Signature
Date 2-3-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075445
Tech: HCJ
Shop Code: F
Equip Code: A
Opened: 2/9/2009 11:58

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt'l)
Date closed: 2/09/09

Customer: UND Acct#: 205922230 Preliminary Insp In Progress Insp

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,702.2 A/F Tach: 5,775.3 Init HCJ

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,947.7	5,947.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,266.4	2,814.1
B2D34C213	002282	PROPELLER	1,804.3	5,268.6

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Requires Phase	05 20	1		0520	N	2/09	4.0		SB	
	Three (3) Inspection				05 20	N	2/9	3.6		HCJ	
					05 20	N	2/9	2.0			
				This aircraft has been inspected in accordance With a(n) Phase 3 Inspection, including, as applicable a routine inspection of Cabin, Fuselage, Empennage, engine and propeller And a detailed inspection of Wings and Landing Gear. Completion Date 2/09/09	05 20	N	2/9	4.0			
2	Requires SL1087	65 00	1	Checked Torques of Wing	57 10	N	2/9	0.2		HCJ	
	Wing Aft Spar Bolt			Aft Spar Bolt IAW SL1087.							
	Torque Check.			Torques Checked Good.							
				Next Due at 5887.6 A/F Tach							
3	Requires AD2008-14-07	04 00	1	Insp per MSB 342E,	7310	N	2/09	.2		SB	
	Fuel Injection Lines			no defects noted							
	Inspection.			Next due: 5837.6							
	Date: 8/14/08										

INSPECTION SUPPLEMENT AND WORK ORDER Page 2 of 7

Reg#: (N) N289ND Work Order #: 1075445

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
4	REQUIRES SB UNDER WING SPAR CHAFING INSPECTION	05 00	1	Inspected, no chafing noted	5700	N	2/09	.2		BB	
5	REQUIRES INDUCTION AIR FILTER REPLACEMENT ON TIME. (200 HOURS	05 20	1	Replaced filter, next due: 5975.3	7160	N	2/09	.2		BB	
6	REQUIRES SB 1156 NLG DRAG LINK BOLT REPLACEMENT	05 00	1	REMOVED AND REPLACED NLG DRAG LINK BOLT IAW SB1156. REMOVED AND REPLACED BUSHINGS. RE-SAFETIED WITH COTTER PIN	32 10	N	2/09	0.4		HCJ	

INSPECTION SUPPLEMENT AND WORK ORDER Page 3 of 7

Reg#: (N) N289ND Work Order #: 1075445

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
7	Requires AD 2009-02-03 RSA Fuel Injection Plug Inspection Date 2/9/09	04 00	1	Previously complied with via Precision Aviotive AMOC dated 4/28/08.	7310	N	2/09	.2		SB	
8	Nose gear trunnion bushings loose	32 10	1	Removed and Replaced Trunion Bushings on NLG. Re-Safted with Cotter Pins	32 10	N	2/9	0.8		HGS	
9	Nose gear torque link loose	32 10	1	Removed and Replaced Upper and Lower Bushings on NLG Torque Link. Removed and Replaced Upper Bolt on NLG Torque Link Re-Safted Upper and Lower Bolts with Cotter Pins	32 10 Link	N	2/9	1.0		HGS	

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 789ND

Work Order #: 1075445

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
10	Rt cowl pin bushing worn	7110	1	Replaced bushing	7110	N	2/08	.2		[illegible]	[illegible]
11	Battery box top in poor repair	2570	1	Repaired crack with Epoxy Plastic Repair "Mix"	2570	N	2/9	.5		[illegible]	[illegible]
12	Oil door doubler cracked	7110	1	Installed new oil Door Doubler	7110	N	2/9	.5		[illegible]	[illegible]

INSPECTION SUPPLEMENT AND WORK ORDER Page 5 of 7

Reg#: (N) 289ND Work Order #: 1075445

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
13	Rt cowl pin gouged	7110		Installed new cowl pin plate in cowl	7110	N	2/9	.8		CM	
14	MLG upper and lower torque link bushings worn	3210	1	Replaced upper bushings, lower bushings OK	3210	N	2/09	.4		SB	
15	Rt MLG upper torque link bushings worn	3220	1	Removed and Replaced Outboard Upper Torque Link Bushing on Right MLG. Re-Safetied Bolt/ Nut with Cotter Pin.	3220	N	2/9	0.4		HGS	

INSPECTION SUPPLEMENT AND WORK ORDER Page 6 of 7

Reg#: (N) 289 NT Work Order #: 1075445

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
16	Rt brake caliper 'O' ring seeping	3240	1	Installed new O-Ring Serviced RH Brake with H-5606 Fluid OPS CK — Good	32/60	N	2/9	.5		CM	
17	Rt aileron push-rod both rod-ends worn	2710	1	Replaced both rod ends, secured as required, surface travel check OK	2710	N	2/09	.6		SB	
18	Lt aileron push-rod rod end worn, bellcrank side	2710	1	Replaced rodend, secured w/ cotter-pin, surface travel check OK	2710	N	2/09	1.0		SB	

INSPECTION SUPPLEMENT AND WORK ORDER

Page 1 of 1

Reg#: (N) 289ND

Work Order #: 1075445

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
19	NWS Centering roller	3250	1	Installed new roller	3250	N	2/09	.5		SB	
	is missing			and associated							
				components							
20	Insp time	0560	1	time	05	N	2/9	2.5			

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 ~~OOSR092N~~.

Authorized Signature

Date 2/9/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075578
Tech: NJG
Shop Code: F
Equip Code: A
Opened: 2/13/2009 18:24

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)
Date closed: 2/13/09

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,712.4 A/F Tach: 5,782.2 Init NJG

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,954.6	5,954.6
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,273.3	2,821.0
B2D34C213	002282	PROPELLER	1,811.2	5,275.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	copilots shoulder harness won't stay locked	25 10	1	replaced lap belt	25 10	N	2/13	.6		NJG	
2	Landing light inop	33 40	1	replaced lamp, ops chk good Rich Gent AP 3163303 Nicholas Greinert	33 40	N	2/13	.4		NJG	

1. Approving National Aviation Authority/Country:	2.	3.
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	9105[redacted]

4. Organization Name and Address	5. Work Order/Contract/Invoice Number:
DAVIS RESTRAINT SYSTEMS INC. 820 SOUTH PALM AVE. SUITE 15, ALHAMBRA, CA 91803-1529 USA	34381Z

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	SEAT BELT	FDC6400-120-5	"N/A"	5		REPAIR

13. Remarks :

REPAIRED IN ACCORDANCE WITH THE APPROVED DESIGN DATA FROM DAVIS AIRCRAFT PRODUCTS, INC. (OEM) AND WITH CMM DS2061 REV. B 02/07. FULL DETAILS OF WORK CARRIED OUT PER WORK ORDER NO. 910590A.

14. Certifies the items identified above were manufactured in conformity to:	19.
☐ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 13.	☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
15. Authorized Signature: / 16. Approval/Authorization No.:	20. Authorized Signature: / 21. Approval/Certificate No.: GK3R530L
17. Name (Typed or Printed): / 18. Date (m/d/y):	22. Name (Typed or Printed): Richard F. Pfirrman / 23. Date (m/d/y): April/14/2008

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075830
Tech: KJB
Shop Code: W
Equip Code: A
Opened: 2/22/2009 8:54

OBTAIN ALL INITIALS BEFORE FILING

R/A KJB
Parts (opt) 1
Date closed: 2/22/09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,754.2 A/F Tach: 5,814.9 Init KJB

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,987.3	5,987.3
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,306.0	2,853.7
B2D34C213	002282	PROPELLER	1,843.9	5,308.2

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	A/C has bodily fluids in right rear seat	1220	1	Fluids removed A+P 2845542 Cole Bladow	1220	N	2-22	1.0		KJB	CAD

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075912
Tech: SFB
Shop Code: F
Equip Code: A
Opened: 2/23/2009 16:26

OBTAIN ALL INITIALS BEFORE FILING

R/A SF
Parts (optl) _____
Date closed: 2/23/09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,788.7 A/F Tach: 5,825.3 Init SB

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	5,997.7	5,997.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,316.4	2,864.1
B2D34C213	002282	PROPELLER	1,854.3	5,318.6

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Static wick broke off of left aileron	2360	1	Installed new static wick Scott F. Baker A&P 2856702	2360	N	2/23	.4		SB	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075981
Tech: KJB
Shop Code: W
Equip Code: A
Opened: 2/25/2009 20:04

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) [initials]

Date closed: 2-25

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,778.0 A/F Tach: 5,831.5 Init KJB

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,003.9	6,003.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,322.6	2,870.3
B2D34C213	002282	PROPELLER	1,860.5	5,324.8

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	A/C Needs Washed	12 20	1	A/C washed	12 20	N	2-25	2.0		KJB	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1075992
Tech: NJG
Shop Code: F
Equip Code: A
Opened: 2/26/2009 12:58

OBTAIN ALL INITIALS BEFORE FILING

R/A 84
Parts (optl) 4

Date closed: 3/3/09 ~~2/26/09~~

Customer: UND Acct#: 205922230 Preliminary Insp MSB In Progress Insp MSB

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,778.0 A/F Tach: 5,831.5 Init: NJG

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,003.9	6,003.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,322.6	2,870.3
B2D34C213	002282	PROPELLER	1,860.5	5,324.8

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	phase 4 insp due	05 20	1	This aircraft has been inspected in accordance With a(n) phase 4 Inspection, including, as applicable a routine inspection of cabin fuselage, empnge wiring, and landing gear And a detailed inspection of engine propeller Completion Date 2/26/09	05 20	N	2/26	4.5		NJG	MSB
						N	2/26	3.5		JRK	MSB
2	AD2008-14-07 fuel inj lines insp due effective date: 8/14/08	73 00	1	no defects noted next due 5897.6	04 00	N	2/26	2		NJG	MSB

INSPECTION SUPPLEMENT AND WORK ORDER Page 2 of 4

Reg#: (N) 289MD Work Order #: 1075992

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
3	SBUND8 wiring spar chafing insp due	05/20	1	no defects noted	05/20	N	2/26	.3		MG	MGS
4	prop leaking fluid	6/00	1	drop on order	6/00	N	2/26	.3		MG	MSB
			2	Removed Prop	6/00	~~N~~ J	3/3/09	1.5		RWS	MSB
				PN# B2D34C213							
				SN# 002282							
				Installed Prop							
				PN# B2D34C213							
				SN# 040839							
				torqued + safetied leak chk OK							
				Ran A/C, ops OK							

INSPECTION SUPPLEMENT AND WORK ORDER Page 3 of 4

Reg#: (N) 289MD Work Order #: 1075992

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
5	cotter pin broken in nose torque link	32/20	1	replaced cotter pin	32/20	N	2/26	.2		MG	MES
6	both stabe wicks on elvator broken	23/60	1	replaced stabe wicks	23/60	N	2/26	.3		MG	MES
7	crack in #2 cyl fwd baffle	72/30	1	stop drilled crack	72/30	N	2/26	.2		MG	MES

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND

Work Order #: 1075992

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
8	Left cowl bushing worn	7/10	1	replaced cowl bushing	7/10	N	2/26	.3		[illegible]	MES
9	right rear cowl latch cracked	7/10	1	ordered part	7/10	N	2/26	.2		[illegible]	MES
			2	Installed new latch, ops ck OK	~~3/3/09~~ 11/10	N	3/3/09	.3		Rws	MSB
10	inspector time	OS 60	1	Inspection time	OS 60	N	2/26	2.0		MES	MES

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 OG5R002N.

Authorized Signature [signature]

Date 3-3-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1076558
Tech: CEC
Shop Code: F
Equip Code: A
Opened: 3/16/2009 14:19

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) _____
Date closed: 3/16/09

Customer: UND Acct#: 205922230 Preliminary Insp MNA In Progress Insp MNA

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,828.3 A/F Tach: 5,869.9 Init [initials]

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,042.3	6,042.3
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,361.0	2,908.7
B2D34C213	040839	PROPELLER	446.2	2,596.1

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Attitude indicator failed during taxi would show +10° bank and ±10° pitch. P/N ~~AR852~~ old 102-0074-03 S/N 893656	34/20	1	Removed & replaced attitude indicator, ops check good. P/N 102-0074-03 S/N 28M0422	34/20	N	3/16	1.2		[initials]	MNA
2	R/H rear shoulder harness will not retract. MEL'd MNA	25/10	1	Replaced shoulder harness, ops check good Cleared MEL MNA	25/10	N	3/16	.5		[initials]	MNA

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature [signature]
Date 3/16/09

1. National Aviation Authority/Country: UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number. W281964-392203-1
4. Organization Name and Address. Pacific Scientific P94R580N AVIATION SERVICES COMPANY 11700 NW 102nd ROAD SUITE 6 MIAMI, FL 33178		5. Work Order, Contract or Invoice Number: CR 1005999

6. Item	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	REEL ASSY	1107447-01	N/A	1	N/A	REPAIRED

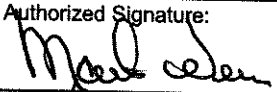
13. REMARKS

Unit was repaired IAW manufacturers approved data.

1107447 Rev: N Date: 7/2/2001

PAC PN : 452-679

Pacific Scientific certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and with respect to that work the aircraft component is considered ready for release to service under EASA Part-145 Approval Number: EASA.145.5406.

14. Certifies the items identified above were manufactured in conformity to:	19 [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13	
[ ] Approved design data and are in a condition for safe operation. [ ] Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature:	16. Approval Authorization No:	20. Authorized Signature: 
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed): **Martin Weiss**

21. Approval/Certifcate No:	23. Date (m/d/y):
P94R580N	Mar/4/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statement in Blocks 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Pacific Scientific P94R580N

11700 NW 102nd Road
Suite 6
Miami, Fl 33178

Work Order
W281964
Warranty Requested
Warranty Accepted: ☐ Yes ☒ No
Approved by:
Page: 1

Part Number: 1107447-01 **Qty:** 1 **Description:** REEL ASSY

SERIAL #: **Customer:** UND AEROSPACE

Customer P.O.: CR 1005999

Technical Data: DATA TYPE / NUMBER / REVISION / REV DATE
1107447 Rev: N Date: 7/2/2001

Evaluation

Customers remark:

Customer request warranty

END CAP FELL OFF.

Results from evaluation:

WARRANTY DENIED

Parts were found to be corroded, worn or damaged.

Work to be performed:

Unit is to be repaired IAW Mfr technical data.

COURTESY..

Initial Evaluation

Work Instructions:

Verify Technical Data

Verify the revision level and date of drawing 1107447 Revision= N Revision Date= 7/2/01

The following Service Bulletins, Engineering Orders, are associated with part number. Verify information below:

SB: A25-1124A EO/ESO: none

Verified by: [Stamp] 3, 4, 09 (mo da yr)

Initial inspection

Initial Inspection: The technician shall inspect the unit for damage, unapproved parts and any non-conforming conditions. Verify the customer has correctly identified the unit. Record the following information:

Unit is correctly identified: YES NO

1) Webbing condition: Good X needs replacing_____ Existing Color.

Remarks none

Initial Inspection Completed by: [Stamp] 3, 4, 09 (mo da yr)

Disassemble and evaluate

Cut the webbing from the existing hardware. Verify that the existing hardware is serviceable. Inspect for hiddend damaged

Remarks N/A

Work perfomed by: [Stamp] 3, 4, 09 (mo da yr)

Pacific Scientific P94R580N

11700 NW 102nd Road
Suite 6
Miami, Fl 33178

Work Order
W281964
Warranty Requested
Warranty Accepted: ☐ Yes ☑ No
Approved by:
Page: 2

Released to Shop

Work Instructions:

Assemble and Sew to drawing requirements N/A

Assemble and sew the webbing in accordance with the manufacturer's drawings.

Re-assemble the reel and strap. Adjust for proper operation. N/A

Work performed by: [Stamp] 3 / 4 / 09 (mo da yr)

Calibrate reel

Test the reel in accordance with IT 575. Perform retraction force test. Pass ✓ Fail ____

Must lock = 175 g No lock = 137 g

Unit calibrated by: [Stamp] 3 / 4 / 09 (mo da yr)

Final assembly

Complete the assembly in accordance with manfucturer's drawings and/or customer's Engineering orders.

SB complied with: ✓ yes ___ no PCW A25-1124A

EO/ESO complied with: ___ yes ___ no –

Work performed by: [Stamp] 3 / 4 / 09 (mo da yr)

Cell leader acceptance

Work was performed in accordance with Manufacturer's specifications and/or customer engineering orders.

Verified by: [Stamp] 3 / 4 / 09 (mo da yr)

INSPECT

Work Instructions:

Final Inspection

Inspected the unit IAW manufacturer's drawings, and/or customer's engineering order.

This certifies that the work specified in this work order was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part is approved for return to service.

Return to service by: [Signature] 3 / 4 / 09 (mo da yr) [Stamp]

PACIFIC SCIENTIFIC
N SERVICES COMPANY

Miami
11700 N.W. 102nd Road
Suite 6, Miami, FL 33178
Phone: (305) 477-4711
Fax: (305) 477-9799
www.pacscimiami.com

Dallas
2156 W. Northwest Highway, Suite 314, Dallas, TX 75220
Phone: (214) 574-4200 Fax: (214) 574-4210

Louisville
6200 Poplar Tree Court, Louisville, KY 40228
Phone: (502) 969-9788 Fax: (502) 961-6037

Packing Slip

Invoice #: M301579
Date: 3/4/2009
Cust. PO#: CR 1005999
ORIGINAL
Page:1

Sold To:
UNIVERSITY OF NORTH DAKOTA
UND AEROSPACE FISCAL AFFAIRS
% PEGGY DOHN ODEGARD HALL RM 200
3980 CAMPUS ROAD STOP 9007
GRAND FORKS, ND 58202-9007
USA
Ph: 701-777-7917 Fax: 701-777-7929

Ship To:
UNIVERSITY OF NORTH DAKOTA
CENTER FOR AEROSPACE SCIENCES
2798 AIRPORT DRIVE
GRAND FORKS, ND 58203
USA
SITE_CODE ND

Sales Order: S262666
Customer #: 100933
Terms: NET 30
Order Date: 3/4/2009
Ship Date: 3/4/2009

Shipment #: 1
FOB: COLLECT
Ship Via: UPS GROUND
Account No. V60390
AWB:

IMPORTANT: If these commodities, technology, or software are to be EXPORTED from the United States, compliance with the Export Administration Regulations is required. Diversion contrary to U.S. law is prohibited.

For installation eligibility goto www.pacscimiami.com/pmadb

Item	Part Number	Description	Shipped	BackOr	CD	Unit Price	Ext Price
1	**1107447-01** COURTESY REPAIR.	**REEL ASSY**	1	0	RP	EA	

CERTIFICATE OF CONFORMANCE

This certifies that the unit(s) shipped herewith have been subjected to all necessary tests, and test data showing conformance with the applicable specification, as well as test reports covering the material of these parts showing conformance with the applicable requirements, are enclosed or, are on file at this facility or at the manufacturer's plant.

Authorized Signature: _____ Date: **3/4/2009**
Quality Assurance

4:05:03 PM

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1076655
Tech: MSB
Shop Code: F
Equip Code: A
Opened: 3/18/2009 22:20

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt'l)

Date closed: 3-18-09

Customer: UND Acct#: 205922230 Preliminary Insp Inp In Progress Insp Inp

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,840.8 A/F Tach: 5,879.1 Init MSB

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,051.5	6,051.5
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,370.2	2,917.9
B2D34C213	040839	PROPELLER	455.4	2,605.3

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Vac pump failed in flight P/N 215CC S/N 49521	37 00	1	Replaced vac pump with new. Ops & leak ck OK P/N AA 3215CC S/N 57331	37 00	N	3-18	1.2		MSB	Inp

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

Authorized Signature
Date 3/18/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1076766
Tech: SAM
Shop Code: W
Equip Code: A
Opened: 3/23/2009 11:26

OBTAIN ALL INITIALS BEFORE FILING

R/A SAM
Parts (opt) SAM

Date closed: 03/23/09

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,851.6 A/F Tach: 5,887.3 Init SAM

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,059.7	6,059.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,378.4	2,926.1
B2D34C213	040839	PROPELLER	463.6	2,613.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Aircraft needs to be washed	1220	1	Aircraft washed	1220	N	3-23	1.5		SAM	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1076588
Tech: CME
Shop Code: A
Equip Code: A
Opened: 3/16/2009 21:50

OBTAIN ALL INITIALS BEFORE FILING

R/A MP
Parts (opti)

MP

Date closed: 3-16-09

Customer: UND Acct#: 205922230 Preliminary Insp KHP In Progress Insp KHP

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,828.6 A/F Tach: 5,869.9 Init CMC

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,042.3	6,042.3
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,361.0	2,908.7
B2D34C213	040839	PROPELLER	446.2	2,596.1

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	DG ERROR stayed on HDG of South	34 20	1	found HSI stuck on South no response in free or slave mode. Repaired loose connection on back of HSI opr check good.	34 20	N	3/16	1.3		CME	KHP

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 DG5R092N.

Authorized Signature

Date 3/17/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1076766
Tech: SAM
Shop Code: W
Equip Code: A
Opened: 3/23/2009 11:26

OBTAIN ALL INITIALS BEFORE FILING

SM

R/A _____
Parts (opt'l) _____

SP

Date closed: 03/23/09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,851.6 A/F Tach: 5,887.3 Init SAM

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,059.7	6,059.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,378.4	2,926.1
B2D34C213	040839	PROPELLER	463.6	2,613.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Aircraft needs	1220	1	Aircraft washed	1220	N	3-23	1.5		SAM	
	to be washed										

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1076773
Tech: CJM
Shop Code: F
Equip Code: A
Opened: 3/23/2009 14:48

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)
Date closed: 3/23/09

Customer: UND Acct#: 205922230 Preliminary Insp In Progress Insp

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,851.6 A/F Tach: 5,887.3 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,059.7	6,059.7
O-360-C1C6	L2718951A	ENGINE (ARROW)	1,378.4	2,926.1
32D34C213	040839	PROPELLER	463.6	2,613.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
	PHASE 1 INSP	05 20	1		05 20	N	3/23	4.0			
	DUE					N	3/23	2.5			
				This aircraft has been inspected in accordance With a(n) PHASE 1 Inspection, including, as applicable a routine inspection of ENGINE, PROPELLER WINGS AND LANDING GEAR And a detailed inspection of FUSELAGE CABIN AND EMPENNAGE. Completion Date MAR 23 2009							
	C/W SB UND4	04 00	1	TESTED "G" I/A/W	25 60	N	3/23	.3			
	ELT "G" switch			SB UND4 - No							
	TEST			Defect Noted							

INSPECTION SUPPLEMENT AND WORK ORDER Page 2 of 6

Reg#: (N) 289ND Work Order #: 1076773

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
3	c/w SL 1087 wing	04 00	1	Complied with SL1087	57 10	N	3/23	.2		JRK	
	SPAR Bolt TORQUE CK			torque check good at this							
				time, NEXT DUE AT							
				130.3							
4	Install. POH	25 10	1	Installed Rev 19 inc	25 10	N	3/23	.2			
	Rev. 19 ARROW			P.O.H.							
5	c/w AD 2008-14-07	04 00	1	Complied with AD2008-14-07	73 10	N	3/23	.3		JRK	
	FUEL Injection Lines			no defects found.							
	Inspection. Effective Date			Next due 5957.6							
	8/14/08										

INSPECTION SUPPLEMENT AND WORK ORDER Page 3 of 6

Reg#: (N) 289ND Work Order #: 1076773

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
6	c/w SB UND 8	04 00	1	Complied with SB	57 00	N	3/23	.2		JRK	
	wing SPAR chafing			UND 8, no chafing noted							
				at this time.							
7	Instrument Filter	37 10	1	Removed & replaced	37 00	N	3/23	.5			
	Replacement Due			Instrument filters.							
				Next due 6387.3							
8	Prop Gov. cable	61 20	1	Removed & replaced	61 20	N	3/23	.4		JRK	
	rod end worn.			prop gov rod end.							

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289 ND

Page 4 of 6

Work Order #: 1076773

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
9	Winterization plate needs to be removed	71/70	1	Removed Winterization plate	71/70	N	3/23	.2		JRK	
10	Prop blades are nicked.	61/00	1	Dressed prop	61/00	N	3/23	.4		JRK	
11	Oil door doubler cracked.	71/10	1	Removed + replaced oil door doubler	71/10	N	3/23	.4		JRK	

INSPECTION SUPPLEMENT AND WORK ORDER Page 5 of 6

Reg#: (N) 289KD Work Order #: 1076773

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
12	FWD MUFFLER	78 30	1	INSTALLED NEW	78 30	Y	3/23	1.2		CM	
	DISTORTED			FWD MUFFLER							
	P/N 67517-00R			P/N 67517-00R							
	S/N 4434			S/N 8379							
13	R/H AILERON OUTBOARD	23 60	1	REMOVED + REPLACED	23 60	N	3/23	.2		JRK	
	STATIC WICK BROKEN			RH AILERON OUTBOARD							
				STATIC WICK							
14	STABILATOR TRIM	27 30	1	CLEANED + LUBED	27 30	N	3/23	.2		JRK	
	BARREL AND DRUM			TRIM BARREL +							
	STICKY			DRUM.							

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND

Work Order #: 1076773

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
15	Lower Exhaust Heat	21/40	1	Installed new Heat	21/40	N	3/23	1.5		CM	
	Shroud clamp Damaged			shroud							
16	Fwd #1 stack bellmouth	78/10	1	Removed + Replaced	78/10	N	3/23	.5			
				#1 Stack							
17	Inspector time	05/60	1	time	05/60	N	3/23	2.0			

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature

Date 3/23/09

1. Approving National Aviation Authority/Country:	2.	3. Form Track
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG	124017

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number
Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121	124017

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	STACK	67809-00	N/A	1 each	N/A	OVERHAULED

13. Remarks:

REF: WORK ORDER #124017.

Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number:EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EASA requirements are the responsibility of the installer.

14. Certifies the items identified above were manufactured in conformity to:		19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature	21. Approval/Certificate No.: UWDR792L
17. Name (Typed or Printed):	18. Date:	22. Name (Typed or Printed): Tom Knaresboro	23. Date (m/d/y): 2/4/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

AEROSPACE WELDING MINNEAPOLIS, INC.

1045 Gemini Road, Eagan, MN 55121 651-379-9888

FAA Repair Station #UWDR792L

NAME: UND-AEROSPACE FISCAL AFFAIRS	S/N AWI: N/A	Job:
ADDRESS: ODEGARD HALL ROOM 200	CITY: GRAND FORKS ND 58202-9007	
Make & Model: PIPER 28R-200	Part Number: 67809-00	
Unit Description: RF STACK 200		
Registration No.		

W27823

INSPECTION

Preliminary Date	2/4/2009	TLK
Hidden Damage Date	2/4/2009	TLK
In Progress Date	2/4/2009	TLK
Final Date	2/4/2009	TLK

CUSTOMER SERVICES REQUESTED

Discrepancies Noted:

☐ OUTERSHELL	☐ BALL JOINT	☐ BELLOWS
☐ OVERBOARD	☐ BELL JOINT	☐ HEAT FINS
☐ BAFFLE	☐ INLAY	☐ STRAIGHT TUBE
☐ END PLATE	☐ OVERLAY	☐ BRACKET
☐ SHROUD RING	☐ INLET EXTENSION	☐ BOLT FLANGE
☐ BEADED END	☐ RISER TUBE	☐ TOP TUBE
☐ TAB	☐ FLANGE	☐ CRACK WELD
☐ SHAFT	☐ TAILPIPE	☑ SLIP JOINT
☐ BUTTERFLY	☐ FLOW DIVIDER	☑ ELBOW
☐ CLEAN & INSP.	☐ BODY	☐ SKIN
☐ _____	☐ _____	☐ _____

INSPECTOR'S INITIALS TLK

Corrective Action: **ITEMS REPLACED OR REPAIRED**

REPL	REPR		REPL	REPR		REPL	REPR	
☐	☐	OUTERSHELL	☐	☐	BALL JOINT	☐	☐	BELLOWS
☐	☐	OVERBOARD	☐	☐	BELL JOINT	☐	☐	HEAT FINS
☐	☐	BAFFLE	☐	☐	INLAY	☐	☐	STRAIGHT TUBE
☐	☐	END PLATE	☐	☐	OVERLAY	☐	☐	BRACKET
☐	☐	SHROUD RING	☐	☐	INLET EXTENSION	☐	☐	BOLT FLANGE
☐	☐	BEADED END	☐	☐	RISER TUBE	☐	☐	TOP TUBE
☐	☐	TAB	☐	☐	FLANGE	☐	☐	CRACK WELD
☐	☐	SHAFT	☐	☐	TAILPIPE	1	☐	SLIP JOINT
☐	☐	BUTTERFLY	☐	☐	FLOW DIVIDER	1	☐	ELBOW
☐	☐	CLEAN & INSP.	☐	☐	BODY	☐	☐	SKIN
☐	☐	_____	☐	☐	_____	☐	☐	_____

INSPECTOR'S INITIALS TLK

Material Type	***Approved Data***
☑ 347 SS FILLER ROD	☑ 43.13-1B
☑ 321 SS	☐ MANUFACTURER'S MANUAL
☐ 4130 CHROMALLY	☐ AIR CARRIER'S MANUAL
☐ 4130 ROD	
☐ INCONEL	
☐ INCONEL ROD	
☐ _____	☐ _____
☐ _____	

☑ REPAIRS	☑ BOLT FLANGE	☐ _____	☐ _____
☑ A.D. NOTES	☐ DIE PENETRANT	☐ CORROSION PROTECT NEW TUBE	☐ _____
☑ PRESSURE TEST	☐ DEMAGNETIZE	☐ PRIMER COAT	☐ _____

MAINTENANCE RELEASE

The aircraft/component identified hereon was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for Return to Service. Pertinent details of the repair are on file at this agency.

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY _____ DATE 2/4/2009

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1077230
Tech: HCJ.
Shop Code: F
Equip Code: A
Opened: 4/7/2009 17:57

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) JWG
Date closed: 4/7/2009

Customer: UND Acct#: 205922230 Preliminary Insp UND SAS 14 INSP In Progress Insp UND SAS 14 INSP

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,894.1 A/F Tach: 5,919.1 Init HCJ

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,091.5	6,091.5
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,410.2	2,957.9
B2D34C213	040839	PROPELLER	495.4	2,645.3

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Oil Filler Door Latch is Broken	71 10	1	Removed and Replaced Oil Filler Door Latch. Ops Check Good. Riveted IAW AC43.13-1B, Para (4-57).	71 10	N	4/7	0.8		HCJ	UND SAS 14 INSP

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N UND SAS 14 INSP

Authorized Signature
Date 4/7/9

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1077450
Tech: NJG
Shop Code: F
Equip Code: A
Opened: 4/14/2009 19:44

OBTAIN ALL INITIALS BEFORE FILING

R/A: 84
Parts (opti): 1
Date closed: 4-15-09

Customer: UND Acct#: 205922230 Preliminary Insp: [signature] In Progress Insp: [signature]

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,914.6 A/F Tach: 5,935.1 Init: MJB

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,107.5	6,107.5
IO-360-C1C6	L2716951A	ENGINE (ARROW)	1,428.2	2,873.9
B2D34C213	040838	PROPELLER	511.4	2,661.3

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	A/T annuciator blinking, but turned off after rpm brought above 1,500 rpm	24 20		REPAIRED (2) WIRES ONE FOR ANNUNCIATOR AND THE OTHER WAS THE MAIN GROUND OP CK GOOD.	24 20	N	4/15	1.9		MJB	
2	Landing light inop	33 40	1	REPLACED WITH NEW BULB - OPS CK GOOD	33 40	N	4/15	.3		MJB	

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 and is airworthy and approved for return to service.
Certified Repair Station OG5R092N

Authorized Signature _____
Date _____

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

Authorized Signature _____
Date 4-15-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1077568
Tech: CES
Shop Code: F
Equip Code: A
Opened: 4/17/2009 10:39

OBTAIN ALL INITIALS BEFORE FILING

R/A BY
Parts (optl) ____
Date closed: 4/17/09 BY

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,924.1 A/F Tach: 5,942.3 Init CE

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,114.7	6,114.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,433.4	2,981.1
B2D34C213	040839	PROPELLER	518.6	2,668.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	stall horn	24 00	1	charged	24 00	W	4/17	1.0		CE	
	doesn't work			batt. ops. ck. good							
				A+P# 2772024 Chad Sigmont chad Symington							

[redacted]

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1077673
Tech: MRS
Shop Code: F
Equip Code: A
Opened: 4/21/2009 9:44

OBTAIN ALL INITIALS BEFORE FILING

R/A MS
Parts (optl) _____
Date closed: 4/22/09 MS

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,928.6 A/F Tach: 5,945.5 Init MNS

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,117.9	6,117.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,436.6	2,984.3
B2D34C213	040839	PROPELLER	521.8	2,671.7

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Phase 2 Insp. Due	05 20	1	FOR BILLING PURPOSES ONLY Work Performed by: GFK Flight Support See log Entry attached below	05 20	N	4/22	2.5		MNS	

GFK FLIGHT SUPPORT

GRAND FORKS INTERNATIONAL AIRPORT
2467 AIR CARGO DRIVE • GRAND FORKS, ND 58203

Air Frame Logbook Insert

Date: 4/21/2009; Aircraft: 289ND; Type: ARROW; S/N: 2844039; Hobbs: 7928.6; Tach: 5945.5; Total Time: 6117.9; Engine - Type: IO-360-C1C6, S/N: L2718951A, Time: 1436.6; Prop - Type: B2D34C213, S/N: 002282, Time: 521.8; Work Done At - Airframe Time: 6117.9,, Engine Time: 1436.6,
Completed a phase 2 inspection in reference to a U.N.D. progressive inspection checklist, comp. test: #1 76/80, #2 75/80, #3 76/80, #4 76/80, drained oil and removed filter, serviced engine with 8 qts. Aeroshell 15W50 and a CH48110-1 filter, C/W AD2008-14-07 fuel injector lines amended 8/14/08, no defects noted, replaced induction air filter, retimed both mags to engine, replaced #4 cylinder bottom spark plug, run up and leak check good.

Bob Martin
A&P471824633IA

Bob Martin

"I certify that in accordance with a progressive inspection program, a routine inspection of Cabin, Fuselage, Tail, Wings and gear and a detailed inspection of Engine and Prop were performed and this Aircraft is approved for return to service"

Bob Martin
A&P471824633IA

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1078038
Tech: MHB
Shop Code: F
Equip Code: A
Opened: 5/1/2009 7:06

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) ____
Date closed: 5-2-09

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,954.5 A/F Tach: 5,965.0 Init [initials]

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,137.4	6,137.4
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,456.1	3,003.8
B2D34C213	040839	PROPELLER	541.3	2,691.2

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1.	MANIFOLD PRESS GUAGE LAGGED SEVERLY AT TIMES SOMETIMES STAYED ON ZERO WITH DIFF THROTTLE POSITION old P/N 6331 old S/N 194580	7710	1	removed & replaced M/P / Fuel Flow gauge with serviceable gauge, run up & opt check OK. New P/N 6331 New S/N 169891	7710	N	5/2	2.0		[initials]	
2.	LANDING LIGHT INOP.	3340	1	replaced light	3340	N	5/2	.5		[initials]	

[signature]
AP323528778

1. Approvir
Aut

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1078066
Tech: RWS
Shop Code: F
Equip Code: A
Opened: 5/2/2009 8:18

OBTAIN ALL INITIALS BEFORE FILING

R/A _____
Parts (opt) _____
Date closed: 5/2

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,954.5 A/F Tach: 5,965.0 Init _____

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,137.4	6,137.4
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,456.1	3,003.8
B2D34C213	040839	PROPELLER	541.3	2,691.2

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp

INSPECTION SUPPLEMENT AND WORK ORDER

odegard School of Aerospace Sci.
University of North Dakota
irand Forks Intl. Airport
Mark Andrews Field
irand Forks, ND 58202

WKO#: 1078186
Tech: RMK
Shop Code: F
Equip Code: A
Opened: 5/6/2009 9:54

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt!)
Date closed: 5.6.09

ustomer: UND Acct#: 205922230 Preliminary Insp UND SAS 14 INSP In Progress Insp UND SAS 14 INSP

#: N288ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,958.7 A/F Tach: 5,968.8 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,141.2	6,141.2
O-360-C1C6	L2718951A	ENGINE (ARROW)	1,459.9	3,007.6
2D34C213	040839	PROPELLER	545.1	2,695.0

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	AT REAR COWL FASTNER BROKEN	71/0	1	Removed & replaced cowling latch	71/0	N	5/6	1.0			UND SAS 14 INSP

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R093N UND SAS 14 INSP

Authorized Signature
Date 5/6/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1078552
Tech: JDL
Shop Code: F
Equip Code: A
Opened: 5/19/2009 13:28

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) _____
Date closed: 5-19-09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,977.6 A/F Tach: 5,982.8 Init [initials]

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,155.2	6,155.2
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,473.9	3,021.6
B2D34C213	040839	PROPELLER	559.1	2,709.0

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Right aileron inboard static wick is broke	23 60	1	Removed and replaced static wick	23 60	N	5/19	.5		[initials]	[initials]
				[signature] A+P 501946082							

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1078841
Tech: MSB
Shop Code: F
Equip Code: A
Opened: 5/28/2009 15:52

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) JWG
Date closed: 5-28-09

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,993.0 A/F Tach: 5,995.7 Init MSB

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,168.1	6,168.1
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,486.8	3,034.5
B2D34C213	040839	PROPELLER	572.0	2,721.9

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	oil ~~hinge~~ MSB door hinge and latch broken	71 10	1	Repaired cowl around oil door by fiberglass repair I/A/W Piper PA28R201 MM Ch 51-70-00 touchup + surface repairs. Installed new doubler, oil door and latch. Mitty Budgish A+P501709661	71 10	N	5-28	2.5		MSB	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1078877
Tech: CAB
Shop Code: F
Equip Code: A
Opened: 5/29/2009 14:05

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)

Date closed: 5/29/09

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 7,996.6 A/F Tach: 5,997.1 Init CB

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,169.5	6,169.5
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,488.2	3,035.9
B2D34C213	040839	PROPELLER	573.4	2,723.3

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	R/H mLG is Flat on Pump	32/46	1	Removed & Replaced Tire Ass'y. A+P 2845542 [illegible] Calc Bladow	32/46	N	5/29	.6		CB	CB

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1078972
Tech: CSG
Shop Code: F
Equip Code: A
Opened: 6/2/2009 7:33

OBTAIN ALL INITIALS BEFORE FILING

R/A UMW
Parts (optl) _____
Date closed: 6-02-09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,005.8 A/F Tach: 6,004.0 Init 156

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,176.4	6,176.4
O-360-C1C6	L2718951A	ENGINE (ARROW)	1,495.1	3,042.8
B2D34C213	040839	PROPELLER	580.3	2,730.2

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Yearly ELT insp due	05 20	1		25 40	N	6/2	.6		156	

This ELT was inspected in accordance with applicable manufacturer's instruction of FAA notice A8150-3 and found to meet the requirements of FAR 91.207 (d).

ELT Model 110-4 ELT S/N # 70736

ELT Test Date 6-02-09

Authorized Signature [signature]
Certified Repair Station OG5R092N

Clark Gebhard A&P2769406

[signature]

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1079084
Tech: MRS
Shop Code: F
Equip Code: A
Opened: 6/4/2009 8:49

OBTAIN ALL INITIALS BEFORE FILING

R/A MRS
Parts (optl) _____
Date closed: 6/5/09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,014.8 A/F Tach: 6,010.9 Init MRS

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,183.3	6,183.3
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,502.0	3,049.7
B2D34C213	040839	PROPELLER	587.2	2,737.1

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Phase 3 Insp. Due	05:20	1	FOR BILLING PURPOSES ONLY Work Performed by: GFK Flight Support See Log Entry attached below	05:20	N	6/5	0.5		MRS	

GFK FLIGHT SUPPORT

GRAND FORKS INTERNATIONAL AIRPORT
2467 AIR CARGO DRIVE • GRAND FORKS, ND 58203

Air Frame Logbook Insert

Date: 6/05/2009; Aircraft: 289ND; Type: ARROW; S/N: 2844039; Hobbs: 8014.8; Tach: 6010.9; Total Time: 6183.3; Engine - Type: IO-360-C1C6, S/N: L2718951A, Time: 1502.0; Prop - Type: B2D34C213, S/N: 002282, Time: 587.2; Work Done At - Airframe Time: 6183.3,, Engine Time: 1502.0,
Completed a phase 3 inspection in reference to a U.N.D. progressive inspection checklist, C/W AD2008-14-07 fuel injection lines, amended 8/14/2008, C/W SB UND8 wing spar chafing, no defects noted, C/W SL 1087 aft wing spar bolt torque check, no defects noted, replaced both main wheel brake linings and rivets, installed Piper POH revision #20, run up and leak check good.

"I certify that in accordance with a progressive inspection program, a routine inspection of Engine, Prop, Cabin, fuselage, Tail and a detailed inspection of Wings and gear were performed and this Aircraft is approved for return to service"

Bob Martin
A&P4718246331A

Bob Martin
A&P 4718246331A

INSPECTION SUPPLEMENT AND WORK ORDER

Page 1 of 1

Odegard School of Aerospace Sci
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WO# 1079144
Tech SFB
Shop Code: F
Equip Code: A
Opened: 6/5/2009 18:41

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt'l)
Date closed: 6-5-2009

Customer: UND Acct# 205922230 Preliminary Insp MCS In Progress Insp MCS

A/C# N399ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,015.3 A/F Tach: 6,010.9 Init MCS

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,183.3	6,183.3
O-360-C1C6	L2718951A	ENGINE (ARROW)	1,502.0	3,049.7
82D34C213	040639	PROPELLER	587.2	2,737.1

PC	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
	Aircraft would not start	74 10	1	Removed and Replaced Left mag. timed mag to engine. Ops check and leak check good	74 10	T	6/5	2.2		MCS	MCS
	S/N Removed: 08012322										
	P/N 4372			S/N Installed: 08120671							

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 OGSR993K.

Authorized Signature
Date 6/5/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1079243
Tech: SFB
Shop Code: F
Equip Code: A
Opened: 6/9/2009 17:34

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt'l)

Date closed: 6/09/09

Customer: UND Acct#: 205922230 Preliminary Insp: Init In Progress Insp: Init

N#: N289ND Acft Type: ARRO Model: PA28R-201 Bill Meter: 5,018.1 A/F Tach: 8,012.8 Init: SB

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,185.2	6,185.2
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,503.8	3,051.6
82D34C213	040939	PROPELLER	589.1	2,738.0

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	When gear was retracted, unsafe lite remained lit. Extended gear, got 3 green	3260	1	Adjusted nose gear up switch tab. Checks OK per 32-30-00 and 32-60-00 AMM	3260	N	6/09	2.0		SB	
				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 and is airworthy and approved for return to service. Certified Repair Station 0G5R092N Authorized Signature Date 6/09/09							
2	Insp. Time	05/60	1	Time	05/60	N	6/9	.5			

INSPECTION SUPPLEMENT AND WORK ORDER

Page 1 of 1

Odegard School of Aerospace Sc
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO# 1078340
Tech CSG
Shop Code F
Equip Code: A
Opened 6/12/2009 7:49

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (opt): [illegible]
Date closed: 6-12-09

Customer: UND Acct# 205922250 Preliminary Insp ____ In Progress Insp ____

Ref# N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,020.7 A/F Tach: 6,014.3 Init /56

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844038	AIRFRAME (ARROW)	6,186.7	6,186.7
IO-360-D1C6	L2718951A	ENGINE (ARROW)	1,505.4	3,053.1
B2D34C213	040838	PROPELLER	590.6	2,740.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	While holding short engine began surging between 1000-1100 RPM.	72 00	1	Ran aircraft, all engine indications, & opperation checked good, could not duplicate Clark Gebhard A&P2769446 [signature]	72 00	N	6/12	.8		/56	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1080026
Tech: CEC
Shop Code: F
Equip Code: A
Opened: 7/2/2009 15:42

OBTAIN ALL INITIALS BEFORE FILING

R/A 84
Parts (optl) 84

Date closed: 7-2-09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,086.9 A/F Tach: 6,064.1 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,236.5	6,236.5
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,555.2	3,102.9
B2D34C213	040839	PROPELLER	640.4	2,780.3

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	L/H Fwd Cowl latch barely latches.	71/10	1	added shims to latch ops check good	71/10	N	7/2	.5			
2	Landing light insp	33/40	1	Replaced landing light ops check good	33/40	N	7/2	.5			
					A&P 302720						

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1080079
Tech: CES
Shop Code: F
Equip Code: A
Opened: 7/7/2009 9:31

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt'l)
Date closed: 7/8/9

Customer: UND Acct#: 205922230 Preliminary Insp MES In Progress Insp MES

N# N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,094.0 A/F Tach: 8,069.3 Init lus

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2944039	AIRFRAME (ARROW)	6,241.7	6,241.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,560.4	3,108.1
B2D34C213	040839	PROPELLER	845.6	2,795.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	fuel leak under LH wing near landing gear	28 10	1	removed fuel tank found evidence of leakage at fuel exit line removed sealant performed dye penetrant on fitting area which revealed no cracks pressure checked found leakage on bottom of flange sealed area with PR1422A and replaced inboard fuel sender gasket sealant needs to dry Applied 7/7/09 3:00 P.M.	28 10	N	7/7	5.5	CES	MES
							7/7	2.5	CES	MES

cont.

INSPECTION SUPPLEMENT AND WORK ORDER

Page 2 of 3

Reg#: (N) 289ND

Work Order #: 1080079

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
1	Continued,	28/10	2	Installed fuel leak, leak ck OK	28/10	N	7/8	2.5		Rus	MES

INSPECTION SUPPLEMENT AND WORK ORDER

Page 3 of 3

Reg#: (N) 289WD

Work Order #: 180079

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
2	LH Fuel Tank drain leaking	28/10	1	Removed & Replaced Drain	28/10	N	7/8	.2		[illegible]	MES
3	Inspection time	0560	1	time	0560	N	7/8	.5		MES	MES

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 [illegible]

Authorized Signature [signature]

Date 7/8/19

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1080128
Tech: MES
Shop Code: F
Equip Code: A
Opened: 7/8/2009 8:01

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) [initials]
Date closed: 7/8/9

ustomer: UND Acct#: 205922230 Preliminary Insp — In Progress Insp —

N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,094.0 A/F Tach: 6,069.3 Init MES

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,241.7	6,241.7
-360-C1C6	L2718951A	ENGINE (ARROW)	1,560.4	3,108.1
2D34C213	040839	PROPELLER	645.6	2,795.5

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
Landing light Inop	3340	1	Replaced Lamp, ops O.K.	3340	N	7/8	.5		MES	MES
			[signature] 2659389AP							

INSPECTION SUPPLEMENT AND WORK ORDER

egard School of Aerospace Sci.
versity of North Dakota
and Forks Intl. Airport
rk Andrews Field
and Forks, ND 58202

WKO# 1080159
Tech: DHT
Shop Code: F
Equip Code: A
Opened: 7/8/2009 16:09

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (opt) [initials]

Date closed: 7/8/09

stomer: UND Acct#: 205922230 Preliminary Insp MSB In Progress Insp ____

: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,094.1 A/F Tach: 6,069.3 Init DHT

rt#	Serial#	Description	TSO	Total Time
28R-201	2844039	AIRFRAME (ARROW)	6,241.7	6,241.7
-360-C1C6	L2718951A	ENGINE (ARROW)	1,560.4	3,108.1
D34C213	040839	PROPELLER	645.6	2,795.5

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
After engine start we switched to the right tank and the engine began to run rough	71 00	1	Ran A/c at all pwr settings and switched between Lft + Rt tank several times. No roughness noted at any time.	71 00	N	7/8	1.0		DHT	
			[signature] AP4727160 66							

[redacted]

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci
University of North Dakota
Grand Forks Intl Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1090172
Tech: HCJ
Shop Code: F
Equip Code: A
Opened: 7/8/2009 20:59

OBTAIN ALL INITIALS BEFORE FILING

R/A: 84
Parts (opt): J
Date closed: 7.10.09

Customer: UND Acct#: 205922230 Preliminary Insp: [signature] In Progress Insp: [signature]

N# N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 6,095.6 A/F Tech: 6,070.3 Init: HCJ

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,242.7	6,242.7
IO-360-C1C6	L2718351A	ENGINE (ARROW)	1,561.4	3,109.1
82D64C213	040939	PROPELLER	846.8	2,798.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	FUEL IN LEFT TANK IS CLOUDY.	28 10	1	CHECKED SUMP FUEL ON LEFT TANK, SAMPLE CLOUDY. DRAINED FUEL FROM LEFT TANK.	28 10	N	7/8	1.5		HCJ	
		28 10	2	REMOVED FUEL TANK FROM PLANE, PRESSURED TESTED TANK & FOUND NO LEAKS AT THIS TIME	28 10	N	7/8	2.2			
		28 10	3	REINSTALLED TANK PUT IN FUEL / LK & OPS CK GOOD FLUSHED LT FUEL TANK	28 10	N	7/10	3.2			

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature: [signature]
Date: 7-10-09

INSPECTION SUPPLEMENT AND WORK ORDER Page ____ of 2

Reg#: (N) 289ND Work Order #: 1080172

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
2	Insp time	0560	1	Time for	0560	N	7/10	1.0		[illegible]	[illegible]
				Billing only			7/10	.5		[illegible]	[illegible]

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1080369
Tech: BVI
Shop Code: F
Equip Code: A
Opened: 7/15/2009 6:53

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opti)
Date closed: 07/15/09

Customer: UND Acct#: 205922230 Preliminary Insp MES In Progress Insp MES

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,102.5 A/F Tach: 6,075.4 Init DTL

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,247.8	6,247.8
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,566.5	3,114.2
B2D34C213	040839	PROPELLER	651.7	2,801.6

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Phase 4 Insp.	0520	1		0520	N	7/15	4.5		DTL	MES
	Dm				05 20	N	7/15	3.5		BVI	MES
				~~This aircraft has been inspected in accordance~~ With a(n) Phase 4 Inspection, including, as applicable a routine inspection of Cabin, Fuselage, Empennage, wings and landing gear ~~And a detailed inspection of Eng. & Propeller~~. Completion Date 07/15/09							
2	AD2008-14-07 Fuel Inj. lines Insp. Dm Effective date = 08/14/08	0400	1	Insp. fuel Inj. lines & clamps. Found Ok. Next due: 6137.6	0400	N	7/15	.2		DTL	MES

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND Work Order #: 1080369

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
3	SB UND 8 Wing Spar	5710	1	No chafing found at	5710	N	7/15	.1		DR	MES
	Chafing due.			this time.							
4	Rt. fwd latch bracket	7110	1	Stop drilled crack.	7110	N	7/15	.1		DR	MES
	is cracked on Top cowl										
5	Prop is Nicked	6100	1	Dressed prop	6100	N	7/15	0.6		BVE	MES
6	Both lower ~~pilot~~ cowl pin bushings	7110	1	Removed and replaced	7110	N	7/15	0.4		BVE	MES
	worn.			both lower cowl pin							
				bushings							

INSPECTION SUPPLEMENT AND WORK ORDER Page 3 of 7

Work Order #: 10X0369

ion (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
strand	71 60	1	Applied RTV silicone and	71 60	N	7/15	.1		DTL	MES
			filled hole.							
externally	74 10	1	Re-tined both ends	74 10	N	7/15	.2		DTL	MES
			to end.							
spark	74 20	1	Replaced end on	74 20	N	7/15	0.7		BVT	MES
as loose			top spark plug lead							
			#1 cyl							

INSPECTION SUPPLEMENT AND WORK ORDER Page 3 of 7

Reg#: (N) 289ND Work Order #: 10Y0369

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
7	hole in head shroud	71 60	1	Applied RTV silicone and	71 60	N	7/15	.1		DTL	MES
	intake.			filled hole.							
8	Both mags are externally	74 10	1	Retimed both mags	74 10	N	7/15	.2		DTL	MES
	out of time.			to eng.							
9	#1 cyl top spark	74 20	1	Replaced end on	74 20	N	7/15	0.7		BVT	MES
	plug lead has loose			top spark plug lead							
	end			#1 cyl							

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND

Work Order #: 1080369

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
10	Prop gov. rod end	61 20	1	Removed and replaced	61 20	N	7/15	0.3		BLE	MES
	is worn.			Prop governor rod end							
11	Prop mounting nuts safty	61 00	1	Re-safttied OTL	61 00	N	7/15	.3		DTL	MES
	wire locks. (1 set)			Prop mounting nuts.							
				(1 set)							
12	#4 Cyl. top Spark	74 20	1	Replaced spark plug	74 20	N	7/15	.1		DTL	MES
	plug is broken.										

INSPECTION SUPPLEMENT AND WORK ORDER Page 5 of 7

Reg#: (N) 289M Work Order #: 1080369

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
13	Compass card unreadable.	34 40	1	Replaced compass card	34 40	N	7/15	.2		DR	MES
				with readable one.							
14	Co-pilots seat back	25 10	1	Replaced roll pins. Op.	25 10	N	7/15	.2		DR	MES
	lever is stuck.			checked good.							
15	Comp. screws loose on	28 00	1	Tightened screws.	28 00	N	7/15	.2		DR	MES
	Lt. fuel tank.										

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND

Work Order #: 1080369

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
16	Nose up bumper is torn.	32 20	1	Removed and replaced nose up bumber	32 20	N	7/15	0.4		BLT	MES
17	AH. air door is loose	71 60	1	Replaced worn washers with new ones.	71 60	N	7/15	.3		DTL	MES
18	#3 cyl. aft and #1 cyl. fwd baffles are cracked	72 30	1	Stop drilled cracks.	72 30	N	7/15	.1		DTL	MES

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 28959

Work Order #: 1080369

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
19	Top heat shroud pcs	71 60	1	Replaced heat shroud	71 60	N	7/15	.1		DTL	MES
	21 cracked			(Top pcs)							
20	Insp. time	0560	1	time	0560	N	7/15	2.0		MES	MES
				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.							
				Authorized Signature [signature]							
				Date 7/15/19							

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1080405
Tech: JDL
Shop Code: F
Equip Code: A
Opened: 7/16/2009 7:49

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)
Date closed: 7-16-09

ustomer: UND Acct#: 205922230 Preliminary Insp UND SAS 14 INSP In Progress Insp UND SAS 14 INSP

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,103.3 A/F Tach: 6,075.8 Init

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,248.0	6,248.0
-360-C1C6	L2718951A	ENGINE (ARROW)	1,566.7	3,114.4
2D34C213	040839	PROPELLER	651.9	2,801.8

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
Gear unsafe light did not come off on gear retraction	32 60	1	Insp and adjusted nose gear up limit switch. Cycled landing gear. Ops check good at this time	32 60	N	7/16	1.3			UND SAS 14 INSP
Inspection time	0560	1	time	0560	N	7/16	.1		UND SAS 14 INSP	UND SAS 14 INSP

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092M

Authorized Signature UND SAS 14 INSP
Date 7/16/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1080653
Tech: RMK
Shop Code: F
Equip Code: A
Opened: 7/23/2009 10:52

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) _____

Date closed: 7-23-2009

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,162.4 A/F Tach: 6,121.3 Init [initials]

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,293.7	6,293.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,612.4	3,160.1
B2D34C213	040839	PROPELLER	697.6	2,847.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1.	COWLING LATCH	7/10	1	Removed & replaced	7/10	N	7/23	1.0		[initials]	
	BROKEN IN			latch							
	MAYVILLE, ND										
				[signature]							
				A&P 501866985							

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1080746
Tech: LJD
Shop Code: W
Equip Code: A
Opened: 7/27/2009 9:29

OBTAIN ALL INITIALS BEFORE FILING

R/A LJD
Parts (opt) LJD
Date closed: 7/27

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,181.3 A/F Tach: 6,135.5 Init JPG

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,307.9	6,307.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,626.6	3,174.3
B2D34C213	040839	PROPELLER	711.8	2,861.7

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Aircraft needs to be	1220	1	Aircraft washed	1220	N	7/27	1.0		LJD	
	washed				1220	N	7/27	1.0		JPG	

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
irand Forks Intl. Airport
lark Andrews Field
irand Forks, ND 58202

WKO#: 1080485
Tech: CSG
Shop Code: F
Equip Code: A
Opened: 7/18/2009 15:15

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl)
Date closed: 7-18-09

ustomer: UND Acct#: 205922230 Preliminary Insp MES In Progress Insp MES

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,123.3 A/F Tach: 6,091.7 Init SG

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,264.1	6,264.1
-360-C1C6	L2718951A	ENGINE (ARROW)	1,582.8	3,130.5
2D34C213	040839	PROPELLER	668.0	2,817.9

D	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
	MLG tire is flat	32 40	1	Removed & Replaced R/H	32 40	N	7/18	.6		SG	MES
				MLG tire assy			7/18	.6		BB	MES
2	Inspection time	0560	1	time	0560	N	7/18	.1		MES	MES

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.

Authorized Signature [signature]
Date 7/18/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1080644
Tech: CME
Shop Code: A
Equip Code: A
Opened: 7/22/2009 23:23

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)

Date closed: 7-22-09

Customer: UND Acct#: 205922230 Preliminary Insp MSB In Progress Insp MSB

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,162.4 A/F Tach: 6,121.3 Init Cme

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,293.7	6,293.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,612.4	3,160.1
B2D34C213	040839	PROPELLER	697.6	2,847.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	pilots Ptt Switch hop	23 00	1	repaired broken wire ops check good	23 00	N	7/22	1.5		Cme	MSB

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature [signature]
Date 7-22-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1080752
Tech: CES
Shop Code: F
Equip Code: A
Opened: 7/27/2009 11:39

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)

Date closed: 7/27/09

Customer: UND Acct#: 205922230 Preliminary Insp In Progress Insp

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,181.3 A/F Tach: 6,135.5 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,307.9	6,307.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,626.6	3,174.3
B2D34C213	040839	PROPELLER	711.8	2,861.7

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	phase insp. is due	05 20	1	phase insp. complete	05 20	N	7/27	5.0			
						N	7/27	4.0			
				This aircraft has been inspected in accordance With a(n) phase Inspection, including, as applicable a routine inspection of engine, propeller + wings and landing gear And a detailed inspection of cabin, fuselage, and empennage Completion Date 7/27/09						
2	SB UND 8 wing spar chafing	04 00	1	inspected IAW SB UND 8 no defects noted	04 00	N	7/27	.2			

INSPECTION SUPPLEMENT AND WORK ORDER Page 2 of 7

Reg#: (N) 289WD Work Order #: 1080752

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
3	AD 2008-14-07	04 00	1	inspected IAW	04 00	N	7/27	.2		[signature]	[signature]
	fuel injection			AD 2008-14-07							
	lines insp. is due			no defects noted							
				next due: 6197.6							
				Eff. date: 8/14/08							
4	SB wRD 4 ELT	04 00	1	performed "6" switch	04 00	N	7/27	.3		[signature]	[signature]
	"6" switch test is			test IAW SB wRD 4							
	due			no defects noted							
5	SL 1087 wing aft.	04 00	1	performed torque	04 00	N	7/27	.3		[signature]	[signature]
	spar bolt torque			chk. IAW SL 1087							
	chk is due			no defects noted							

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289WD

Work Order #: 1080752

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
6	induction air	05 20	1	removed and	21 60	N	7/27	.2			
	filters due			replaced filter							
	time change			next due: 6335.5							
7	Rec. light inop	33 40	1	ops checked ok could not duplicate	33 40	N	7/27	.1			
8	Landing light inop	33/40	1	removed and replaced bulb ops. ck. good	33/40	N	7/27	.3			

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289NG

Work Order #: C080752

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
9	throttle quadrant cover is cracked	25 00	1	Replaced quadrant cover	25 60	N	7/27	.5		DJG	[illegible]
10	prop has nicks	61N	1	Dressed prop	61N	N	7/27	.3		DJG	[illegible]
11	top cowl R/H fwd. attach pin is worn	71 10	1	Replaced cowl pin	71 10	N	7/27	1.5		DJG	[illegible]

INSPECTION SUPPLEMENT AND WORK ORDER Page 4 of 5

Reg#: (N) 289MD Work Order #: 1080752

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
12	R/H aileron aft. rod end has excessive side to side play	27 10	1	Shimmed with ~~[illegible]~~ washer o/s checked good	27 10	N	7/27	.3		[illegible]	[illegible]
13	R/H flap static wick is broken	23 60	1	Replaced STATIC wick	23 60	N	7/27	.2		DJC	[illegible]
14	cabin entry step is cracked	~~52~~ 60	1	replaced step, resealed step to fuselage	~~52~~ 60	N	7/27	.7		MB	[illegible]

INSPECTION SUPPLEMENT AND WORK ORDER Page ~~1~~ of 1

Reg#: (N) 289 ND Work Order #: 1080752

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
15	baggage door hinge is beginning to crack	52 30	1	STOP drilled crack	52 30	N	7/27	.2		[illegible]	[illegible]
16	inboard rib on stab. L/H trim tab half is cracked	27 40	1	removed and replaced rib riveted IAW AC43.13-1B Rev. 4-97	27 40	N	7/27	1.0		[illegible]	[illegible]
17	L/H fuel cap button is worn	28 10	1	replaced button	28 10	N	7/27	.3		[illegible]	[illegible]

INSPECTION SUPPLEMENT AND WORK ORDER Page 6 of 7

Reg#: (N) 28TND Work Order #: 1080252

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
18	static wick on	23 60	1	Replaced Static	23 60	N	7/27	.2		[illegible]	[illegible]
	inboard side of			wick							
	L/H aileron is										
	broken										
19	upper turn limit	11 10	1	installed new	11 10	N	7/27	.2		[illegible]	[illegible]
	placard on NLG			placard							
	is missing										
20	patch on #2 cyl.	72 30	1	Replaced patch	72 30	N	7/27	.5		[illegible]	[illegible]
	fwd baffle is			on #2 cyl.							
	cracked			with like Material							

INSPECTION SUPPLEMENT AND WORK ORDER

Page 2 of 2

Reg#: (N) 289ND

Work Order #: 1080752

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
21	B.H. box cover is cracked	24 60	1	Repaired cover with duramix	24 60	N	7/27	.5		[illegible]	[illegible]
22	pilot's seat R/H aft. seat base attach pin is missing cotter pin and washer	25 10	1	Replaced cotter pin and washer	25 10	N	7/27	.2		[illegible]	[illegible]
23	inspector time	05 60	1	time	05 60	N	7/27	2.7		[illegible]	[illegible]

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 OG5R062N

Authorized Signature [signature]

Date 7/27/09

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1080802
Tech: CAB
Shop Code: F
Equip Code: A
Opened: 7/28/2009 10:17

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) ____
Date closed: 7/28/09

ustomer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,181.6 A/F Tach: 6,136.9 Init CAB

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,309.3	6,309.3
)-360-C1C6	L2718951A	ENGINE (ARROW)	1,628.0	3,175.7
2D34C213	040839	PROPELLER	713.2	2,863.1

D	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
	Upper Cowl	7/16	1	Installed new	7/10	N	7/28	.7		CAB	[initials]
	L/H Aft			latch, ops							
	latch is			check good							
	missing										
				A&P 2845542							
				[signature]							
				Cole Bladen							

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1081030
Tech: DTL
Shop Code: F
Equip Code: A
Opened: 8/5/2009 7:07

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl) [initials]
Date closed: 08/05/09

Customer: UND Acct#: 205922230 Preliminary Insp MSB In Progress Insp MSB

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,236.8 A/F Tach: 6,178.3 Init DTL

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,350.7	6,350.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,669.4	3,217.1
B2D34C213	040839	PROPELLER	754.6	2,904.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	On post flight discovered oil door latch was missing.	7110	1	~~Removed & replaced~~ DTL Installed new oil door latch.	7110	N	8/05	1.0		DTL	MSB
2	Inspector time	05 60	1	Inspected	05 60	N	8-5	.1		MSB	MSB

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.

Authorized Signature [signature]
Date 8-5-09

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1081129
Tech: SJE
Shop Code: W
Equip Code: A
Opened: 8/8/2009 13:28

OBTAIN ALL INITIALS BEFORE FILING

R/A SJE
Parts (optl) SJE

Date closed: 8-8-09

ustomer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,255.1 A/F Tach: 6,192.6 Init SJE

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,365.0	6,365.0
)-360-C1C6	L2718951A	ENGINE (ARROW)	1,683.7	3,231.4
2D34C213	040839	PROPELLER	768.9	2,918.8

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
Aircraft Needs to be Washed	1100	1	Washed Aircraft	1100	N	8-8-09	1.5		SJE	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University ~~of~~ North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1081139
Tech: MOA
Shop Code: F
Equip Code: A
Opened: 8/10/2009 6:52

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)
Date closed: 8/13/09

Customer: UND Acct#: 205922230 Preliminary Insp In Progress Insp MSB

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,255.1 A/F Tach: 6,192.6 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,365.0	6,365.0
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,893.7	3,231.4
B2D34C213	040839	PROPELLER	768.9	2,918.8

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Phase 2 insp. Due	05 00	1	started phase 2 insp.	05 00	N	8/10	4.1		BTL	
			2	Items listed 6/10			8/10	4.0		MA	
			2.	Completed Insp		N	8/13	1.0		MA	MSB
				This aircraft has been inspected in accordance With a(n) Phase 2 Inspection, including, as applicable a routine inspection of cabin Systems, empennage Wings & Landing Gear And a detailed inspection of Engine & Propellor Completion Date 8/13/09							
2.	AD2008-14-07 Fuel injection line Insp. eff date. 08/14/08	04 00	1	complied with AD2008-14-07 Fuel injection line Insp. Next Due: 6257.6	04 00	N	8/10	.3		BTL	

INSPECTION SUPPLEMENT AND WORK ORDER Page 2 of 11

Reg#: (N) 289 ND Work Order #: 1081139

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
3	Sb UND Wing Spar Chafing Due	04 00	1	Complied with Sb UND Wing Spar Chafing next due: 6257.6	04 00	N	8/10	.2		BTL	
4	Rocker Covers are leaking All Cylinders	72 30	1	Removed & Replaced all gaskets	72 30	N	8/10	1.5		MA	
5	Aft Muffler Baffle deformed P/N 67517-00R S/N: 5416	78 20	1	Replaced Aft Muffler w/ P/N: 67517-00R SN: 3334 AND Right Rear muffler stack P/N: 67812-00 next due @ 7192.6	78 00	T Aft BTL	8/10	1.3		BTL	

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND

Work Order #: 1081139

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
6	Gasolator Gasket	28 20	1	Removed & Replaced	28 20	N	8/10	.1		MAH	
	Weather cracked			Gasket							
7	L/H and R/H brake discs	32 40	1	Replaced L/H & R/H	32 40	N	8/10	.5		BTL	
	are worn			brake discs							
8	L/H & R/H lower	71 10	1	Replaced L/H & R/H lower	71 10	N	8/10	.3		BTL	
	Cowl Bushings Worn			Cowl Bushings							
9	Throttle lever	76 10	1	tightened throttle lever	76 10	N	8/10	.2		BTL	
	knob loose			Knob							

INSPECTION SUPPLEMENT AND WORK ORDER

Work Order #: 1081139

(N) 289 ND

Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
dent in bottom	5300	1	Removed Copilot seat	53 00	N	8/10	.8		BTL	[illegible]
of fuselage under			& flap handle cover		N	8/10	1.0		Mat	[illegible]
flap lever area			Removed Fire Ext.							
			& Panel underneath							
			Inspected And found							
			No fod or damage that							
			was more than Neglagible							
			Painted scratch in dent							
			so as to indicate the							
			dent's inspection							
			Reinstalled Panel & extinguisher							
			flap handle cover &							

INSPECTION SUPPLEMENT AND WORK ORDER

Work Order #: 1081139

#: (N) 289 ND

	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
1	landing light inop	33 40	1	Repaired terminal End at bulb opsctk operable	33 40	N	8/10	2		MA	
12	Prop Nicked	61 00	1	DRESSED Prop	61 00	N	8/10	.3		BTL	
13	Eng. Mount cracked	71 20	1	Removed fuel, oil, and electrical Connections from Eng. Disconnected Servo & Prop Gov. Disconnected Vacuum & Breather Tube & Removed Eng from Aircraft	71 20	N	8/10	1.5		MA	
							8/10	1.5		BTL	

INSPECTION SUPPLEMENT AND WORK ORDER Page 6 of 11

Reg#: (N) 289 Work Order #: 1081139

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
13	Cont		2	Removed hoses Lines	71 20	N	8/11	6.0		Mat	
				Control cables that were		N	8/11	6.0		BTL	
				Attached to Eng mount		N	8/12	1.0		BTL	MSB
				Removed Nose Gear			~~8/12~~ 8/12	~~BTL 1.0~~		~~BTL~~	
				Assembly & Removed							
				Eng Mount from Airframe							
				Installed New Eng Mount							
				to Airframe And torqued							
				to 22 ft/lbs as per							
				MX manual step 2.B							
				installation of Gear							
				and Routing of harness							
				Hoses Lines & Misc							
				Fasteners							

Cont.

INSPECTION SUPPLEMENT AND WORK ORDER Page 7 of 11

Reg#: (N) 289 Work Order #: 1081159

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
13	cont		3	completed instalation of	71 20	N	8/13	7.0		BTL	MSB
				nose landing gear (needs		N	8/12	4.0		MA	MSB
				to be swung see pd #20)							
				installed eng. to airframe,							
				connected all lines and fittings							
				IAW Piper Aircraft Maintenance							
				Manual. connected throttle +							
				prop control. and secured							
				and ~~installed~~ routed all ignitions,							
				electrical, fuel, oil, and							
				vacuum lines.							
			4	Ran Aircraft opscheck	71 00	N	8/13	.3		MA	MSB
				Leak checked good							

INSPECTION SUPPLEMENT AND WORK ORDER Page 8 of 11

Reg#: (N) 289 Work Order #: 1081139

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
14	Nose gear up stop is torn	32 20	1	Replaced nose gear up stop	32 20	N	8/11	.2		MAK	
15.	Nose gear down lock bushing is worn	32 20	1	upon further Insp it was found to be serviceable still.	32 20	N	8/13	.1		MA	MSB
16.	Nose gear L/H + R/H foward bushings worn and aft bushings worn	32 20	1	Replaced nose gear L/H + R/H foward + aft bushings.	32 20	N	8/11	1.0		BTL	

INSPECTION SUPPLEMENT AND WORK ORDER Page 9 of 11

Reg#: (N) 289ND Work Order #: 1081139

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
17	Eng Breather hose is weathered	72 00	1	Removed & Replaced hose	72 00	N	8/12	.2		MGM	MSB
18	Prop control ROD END is broken	61 20	1	Removed & Replaced Prop Rod End	61 20	N	8/12	.2		MGM	MSB
19	Fuel line ADell clamp. (above Fuel injection air box) is torn.	73 10	1	Replaced Fuel line ADell clamp. (above Fuel inj. air box)	73 10	N	8/12	.3		BTL	MSB

INSPECTION SUPPLEMENT AND WORK ORDER Page 10 of 11

Reg#: (N) 289NJ Work Order #: 1081139

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
20	Gear Needs to Be Rigged	3200	1	checked Rigging & Adjustment	3200	N	8/13	6.0		MA	MSB
	& Swung			and found Nosesteering							
				Bellcrank, Gear actuator,							
				Up limit switch & doors							
				out of Rigging. Removed							
				& ~~Replaced~~ Installed correctly AFT							
				Drag link Bolts. Replaced							
				Gear up limit Actuator &							
				door Bottom Rod Ends							
				Rigged Gear up stop							
				Actuator, doors & Bellcrank							
				IAW nx Manual, Ran Gear							
				Several times. ops							
				check Normal at							

this time

INSPECTION SUPPLEMENT AND WORK ORDER Page 11 of 11

Reg#: (N) 289 Work Order #: 1081139

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
21	Insp time	0560	1	time	0560	N	8/10	2.0		[illegible]	[illegible]
							8/11	2.0		[illegible]	[illegible]
							8-13	2.5		MSB	MSB
~~22~~	~~Cowl latch LH FWD Bok~~	~~7/10~~	~~1~~	~~Install new latch~~	~~7/10~~	~~N~~	~~8/13~~	~~.3~~		~~MSB~~	

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature [signature]
Date 8-13-09

1. Approving National Aviation Authority/Country:	2.	3. Form Tra
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG	108559

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number
Aerospace Welding Minneapolis, Inc. 12124 12th Avenue South Burnsville MN 55337	108559

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	STACK	67812-00	N/A	1 each	108559	OVERHAULED

13. Remarks:

REF: WORK ORDER #108559.

14. Certifies the items identified above were manufactured in conformity to:

☐ **Approved design data and are in a condition for safe operation.**

☐ **Non-approved design data specified in Block 13.**

19. ☒ **14 CFR 43.9 Return to Service** ☐ **Other regulation specified in Block 13**

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature	21. Approval/Certificate No.:
			UWDR792L
17. Name (Typed or Printed):	**18. Date:**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
		Tom Knaresboro	7/31/2007

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

AEROSPACE WELDING MINNEAPOLIS, INC.

12124 12th Ave. South, Burnsville, MN 55337 952-890-1511

FAA Repair Station #UWDR792L

NAME: UND-AEROSPACE FISCAL AFFAIRS	S/N AWI: 108559	Job:
ADDRESS: ODEGARD HALL ROOM 200	CITY: GRAND FORKS ND 58202-9007	
Make & Model: PIPER 28R-200	Part Number: 67812-00	
Unit Description: RR STACK 200		
Registration No.		

INSPECTION

Preliminary Date	7/31/2007	TK
Hidden Damage Date	7/31/2007	TK
In Progress Date	7/31/2007	TK
Final Date	7/31/2007	TK

CUSTOMER SERVICES REQUESTED

W23271
2

67812-00K

Discrepancies Noted:

☐ OUTERSHELL	☐ BALL JOINT	☐ BELLOWS
☐ OVERBOARD	☐ BELL JOINT	☐ HEAT FINS
☐ BAFFLE	☐ INLAY	☐ STRAIGHT TUBE
☐ END PLATE	☐ OVERLAY	☐ BRACKET
☐ SHROUD RING	☐ INLET EXTENSION	☐ BOLT FLANGE
☐ BEADED END	☐ RISER TUBE	☐ TOP TUBE
☐ TAB	☐ FLANGE	☐ CRACK WELD
☐ SHAFT	☐ TAILPIPE	☑ SLIP JOINT
☐ BUTTERFLY	☐ FLOW DIVIDER	☑ ELBOW
☐ CLEAN & INSP.	☐ BODY	☐ SKIN
☐ _____	☐ _____	☐ _____

INSPECTOR'S INITIALS TK

Corrective Action: **ITEMS REPLACED OR REPAIRED**

REPL	REPR		REPL	REPR		REPL	REPR	
☐	☐	OUTERSHELL	☐	☐	BALL JOINT	☐	☐	BELLOWS
☐	☐	OVERBOARD	☐	☐	BELL JOINT	☐	☐	HEAT FINS
☐	☐	BAFFLE	☐	☐	INLAY	☐	☐	STRAIGHT TUBE
☐	☐	END PLATE	☐	☐	OVERLAY	☐	☐	BRACKET
☐	☐	SHROUD RING	☐	☐	INLET EXTENSION	☐	☐	BOLT FLANGE
☐	☐	BEADED END	☐	☐	RISER TUBE	☐	☐	TOP TUBE
☐	☐	TAB	☐	☐	FLANGE	☐	☐	CRACK WELD
☐	☐	SHAFT	☐	☐	TAILPIPE	1	☐	SLIP JOINT
☐	☐	BUTTERFLY	☐	☐	FLOW DIVIDER	1	☐	ELBOW
☐	☐	CLEAN & INSP.	☐	☐	BODY	☐	☐	SKIN
☐	☐	_____	☐	☐	_____	☐	☐	_____

INSPECTOR'S INITIALS TK

Material Type	***Approved Data***
☑ 347 SS FILLER ROD	☑ 43.13-1B
☑ 321 SS	☐ MANUFACTURER'S MANUAL
☐ 4130 CHROMALLY	☐ AIR CARRIER'S MANUAL
☐ 4130 ROD	
☐ INCONEL	
☐ INCONEL ROD	
☐ _____	☐ _____
☐ _____	

☑ REPAIRS	☑ BOLT FLANGE	☐ _____	☐ _____
☑ A.D. NOTES	☐ DIE PENETRANT	☐ CORROSION PROTECT NEW TUBE	☐ _____
☑ PRESSURE TEST	☐ DEMAGNETIZE	☐ PRIMER COAT	☐ _____

MAINTENANCE RELEASE

The aircraft/component identified hereon was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for Return to Service. Pertinent details of the repair are on file at this agency.

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY _____ DATE 7/31/2007

1. Approving National Aviation Authority/Country:	2.	3. Form Tra
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG	127039

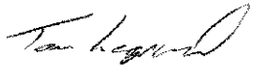
4. Organization Name and Address:	5. Work Order/Contract/Invoice Number
Aerospace Welding Minneapolis, Inc. 1045 Gemini Road Eagan MN 55121	127039

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	MOUNT	67119-57	N/A	1 each	127039	REPAIRED

13. Remarks:

REF: WORK ORDER #127039.

Aerospace Welding Minneapolis, Inc. certifies that the work specified in block 12/13 was carried out in accordance with EASA part 145 and in respect to that work, the component is considered ready for release to service under EASA part 145 Approval Number:EASA. 1456155. This form covers certification of the part identified in block 7/8 only and any additional EASA requirements are the responsibility of the installer.

14. Certifies the items identified above were manufactured in conformity to:		19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13	
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.		Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature 	21. Approval/Certificate No.: **UWDR792L**
17. Name (Typed or Printed):	18. Date:	22. Name (Typed or Printed): Tom Legried	23. Date (m/d/y): 6/19/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Discrepancies Noted:

☐ OUTERSHELL	☐ BALL JOINT	☐ BELLOWS
☐ OVERBOARD	☐ BELL JOINT	☐ HEAT FINS
☐ BAFFLE	☐ INLAY	☐ STRAIGHT TUBE
☐ END PLATE	☐ OVERLAY	☐ BRACKET
☐ SHROUD RING	☐ INLET EXTENSION	☐ BOLT FLANGE
☐ BEADED END	☐ RISER TUBE	☐ TOP TUBE
☐ TAB	☐ FLANGE	☐ CRACK WELD
☐ SHAFT	☐ TAILPIPE	☐ SLIP JOINT
☐ BUTTERFLY	☐ FLOW DIVIDER	☐ ELBOW
☐ CLEAN & INSP.	☐ BODY	☐ SKIN
☐ _____	☐ _____	☐ _____

INSPECTOR'S INITIALS TR

Corrective Action: **ITEMS REPLACED OR REPAIRED**

REPL	REPR		REPL	REPR		REPL	REPR	
☐	☐	OUTERSHELL	☐	☐	BALL JOINT	☐	☐	BELLOWS
☐	☐	OVERBOARD	☐	☐	BELL JOINT	☐	☐	HEAT FINS
☐	☐	BAFFLE	☐	☐	INLAY	☐	☐	STRAIGHT TUBE
☐	☐	END PLATE	☐	☐	OVERLAY	☐	☐	BRACKET
☐	☐	SHROUD RING	☐	☐	INLET EXTENSION	☐	☐	BOLT FLANGE
☐	☐	BEADED END	☐	☐	RISER TUBE	☐	☐	TOP TUBE
☐	☐	TAB	☐	☐	FLANGE	☐	☐	CRACK WELD
☐	☐	SHAFT	☐	☐	TAILPIPE	☐	☐	SLIP JOINT
☐	☐	BUTTERFLY	☐	☐	FLOW DIVIDER	☐	☐	ELBOW
☐	☐	CLEAN & INSP.	☐	☐	BODY	☐	☐	SKIN
☐	☐	_____	☐	☐	_____	☐	☐	_____

INSPECTOR'S INITIALS TR

Material Type	*Approved Data*
☐ 347 SS FILLER ROD	☑ 43.13-1B
☐ 321 SS	☐ MANUFACTURER'S MANUAL
☑ 4130 CHROMALLY	☐ AIR CARRIER'S MANUAL
☐ 4130 ROD	
☐ INCONEL	
☐ INCONEL ROD	
☑ ER 70S-2	☐ _____
☐ _____	

AEROSPACE WELDING MINNEAPOLIS, INC.

1045 Gemini Road, Eagan, MN 55121 651-379-9888

FAA Repair Station #UWDR792L

Form 42

NAME: UND AEROSPACE-E	S/N AWI: 127039	Job:	
ADDRESS: ODEGARD HALL ROOM 200	CITY: GRAND FORKS ND 58202-9007	INSPECTION	Preliminary Date 6/19/2009 TR
Make & Model: PIPER PA 28R ARRO	Part Number: 67119-57		Hidden Damage Date 6/19/2009 TR
Unit Description: PA28R-201T			In Progress Date 6/19/2009 TR
Registration No.			Final Date 6/19/2009 TR

CUSTOMER SERVICES REQUESTED

Clerical error voided work order 122638.

Replaced, tube going from upper left firewall attach point to tube cluster, tube going from lower right engine attach ring to horizontal main tube, tube going from inner right retract point to outter right retract point, tube going from lower right firewall attach point to outter right retract point and tube going from lower right firewall attach point to horizontal main tube. Inner sleeved horizontal main tube from right side of center gusset to right side tube cluster. Reinstalled down lock block on lower right main tube.Top coat imron black

☑ REPAIRS	☑ CHROMATE PRIME	☐ _____	☐ _____
☑ A.D. NOTES	☑ DIE PENETRANT	☐ CORROSION PROTECT NEW TUBE	☐ _____
☐ PRESSURE TEST	☑ DEMAGNETIZE	☐ PRIMER COAT	☐ _____

MAINTENANCE RELEASE

The aircraft/component identified hereon was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for Return to Service. Pertinent details of the repair are on file at this agency.

AUTHORIZED AND CONDITIONS AGREED TO AS STATED ABOVE

BY Tom Hegna DATE 6/19/2009

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1081352
Tech: CAB
Shop Code: F
Equip Code: A
Opened: 8/16/2009 16:31

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)

Date closed: 8/16/09

ustomer: UND Acct#: 205922230 Preliminary Insp UND SAS 24 INSP In Progress Insp UND SAS 24 INSP

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,260.5 A/F Tach: 6,196.9 Init NAG

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,369.3	6,369.3
-360-C1C6	L2718951A	ENGINE (ARROW)	1,688.0	3,235.7
2D34C213	040839	PROPELLER	773.2	2,923.1

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
landing gear would not retract after takeoff	32 10	1	repositioned squat switch, ops check good, antiretraction test good	32 10	N	8/16	.6		CB	UND SAS 24 INSP
				32 10	N	8/16	1.0		NAG	
inspector time	05 60	1	Inspection time	05 60	N	8/16	.4		UND SAS 24 INSP	UND SAS 24 INSP

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

Authorized Signature
Date 8-16-09

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
iversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1081459
Tech: DTL
Shop Code: F
Equip Code: A
Opened: 8/21/2009 6:59

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt)
Date closed: 08/21/09

stomer: UND Acct#: 205922230 Preliminary Insp In Progress Insp

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,276.7 A/F Tach: 6,209.0 Init DTL

rt#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,380.4	6,380.4
-360-C1C6	L2718951A	ENGINE (ARROW)	1,699.1	3,246.8
HD34C213	040839	PROPELLER	784.3	2,934.2

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
The brakes have no pressure.	3340	1	Insp. brakes, Found pistons Lt. actuator to fitting leaking. Tightened Fitting. Bled both MLG brakes. Opr checked good. Locked checked good.	3340	N	8/21	1.0		DTL	
Insp time	0560	1	time	0560	N	8/21	.2			

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

Authorized Signature
Date 8-21-09

INSPECTION SUPPLEMENT AND WORK ORDER

Page 1 of 1

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1081566
Tech: SFB
Shop Code: F
Equip Code: A
Opened: 8/25/2009 16:11

OBTAIN ALL INITIALS BEFORE FILING

R/A SB
Parts (optl)

Date closed: 8/25/09

Customer: UND Acct#: 205922230 Preliminary Insp [illegible] In Progress Insp [illegible]

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,283.3 A/F Tach: 6,212.6 Init SB

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,385.0	6,385.0
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,703.7	3,251.4
B2D34C213	040839	PROPELLER	788.9	2,938.8

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	When depressing left brake, braking action was near nil	3240	1	Removed and replaced pilot side left master cylinder w/ repaired like item. Bled brakes. Ops and leak check OK	3240	N	8/25	2.3		SB	[illegible]
2	disp. time	05/60	1	time	05/60	N	8/25	.3		[illegible]	[illegible]

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.

Authorized Signature [illegible]
Date 8-25-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1081858
Tech: SJE
Shop Code: W
Equip Code: A
Opened: 9/3/2009 18:18

OBTAIN ALL INITIALS BEFORE FILING

R/A SJE
Parts (opt!) SJE
Date closed: 9/3/09 SJE

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,336.0 A/F Tach: 8,252.4 Init SJE

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,424.8	6,424.8
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,743.5	3,291.2
B2D34C213	040839	PROPELLER	828.7	2,978.6

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Aircraft Needs to be Washed	12dc	1	Washed Aircraft	12dc	N	9/3/09	1.0		SJE	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1081863
Tech: BTM
Shop Code: F
Equip Code: A
Opened: 9/4/2009 6:38

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)
Date closed: 9-4-09

Customer: UND Acct#: 205922230 Preliminary Insp In Progress Insp

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,336.0 A/F Tach: 6,252.4 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,424.8	6,424.8
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,743.5	3,291.2
B2D34C213	040839	PROPELLER	828.7	2,978.6

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Phase 3 Inspection	05 20			05 20	N	9/4	6.0		BVJ	
	due					N	9/4	6.3		MJB	
				This aircraft has been inspected in accordance With a(n) Phase 3 Inspection, including, as applicable a routine inspection of Engine/propeller cowling, Fuselage, empennage And a detailed inspection of wings Landing gear. Completion Date 9-4-09							
2	AD2008-14-07	04 00	1	Complied with	73 10	N	9/4	0.2		BJ	
	Fuel injected lines insp			AD2008-14-07, no							
	eff date 8-14-08			defect found, next							
				due 6317.6							

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289 ND

Work Order #: 1081863

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
3	SB UND & Wing Spar	05 20	1	complied with SB	57 00	N	9/4	0.1		BVI	
	Chafing			UND & Wing Spar							
				Chafing, NO defect							
				found							
4	SL 1087 Wing Aft Spar	05 20	1	Complied with	57 00	N	9/4	0.2		BVI	
	bolt torque check			SL1087 wing Aft spar							
				bolt torque check, NO							
				defect found							
5	SB 1156 NLG Drag	05 20	1	REPLACED NLG DRAG	32 20	N	9/4	.3		MSSP	
	link bolt replacement			LINK BOLT WITH							
				NEW ONE - NEXT							
				DUE @ 6752.4							

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289 ND

Work Order #: 1081863

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
6	Alternate Air handle is sticky	71 60	1	Cleaned alternate AIR handle and arm on valve	71 60	N	9/4	0.2		RMS	
7	Control yokes are both sticky	27 00	1	Cleaned both control yokes	27 00	N	9/4	0.2		BVE	
8	Both cowl bushings are worn out	71 10	1	Replaced both cowl bushings	71 10	N	9/4	0.1		BVE	

INSPECTION SUPPLEMENT AND WORK ORDER Page 4 of 5

Reg#: (N) 289 ND Work Order #: 108 1863

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
9	Manifold pressure line broken	77 10	1	Removed and replaced broken manifold pressure line	77 10	N	9/4	0.5		DVE	
10	Prop has nicks	61 00	1	Blended prop	61 00	N	9/4	0.4		DVE	
11	Screw loose on cabin door by the latch	52 10	1	tightened screw on cabin door	52 10	N	9/4	0.1		DVE	

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289 ND

Work Order #: 1081863

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
12	Hydraulic power pack needs servicing	29 00	1	serviced hydraulic power pack	29 00	N	9/4	0.2		BVE	
13	R/H Static wick broken on elevator	23 60	1	replaced broken static wick on R/H side of elevator	23 60	N	9/4	0.2		BVE	
14	L/H Brake disc worn past limits, and brake pads also worn past limits	32 40	1.	REPLACED WITH NEW DISC AND BRAKE LININGS	32 40	N	9/4	.8		MYPB	

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289 ND

Work Order #: 1081863

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
15	R/H spacer missing on wheel	32 40	1	INSTALLED SPACER	32 40	N	9/4	.1		[illegible]	[illegible]
16	L/H upper torque link bushing is worn on main gear	32 10	1	Removed and replaced L/H main gear upper bushings	32 10	N	9/4	0.4		BLC	[illegible]
17	Nose gear drag link bushing worn + BOLT	32 20	1.	REPLACED BOTH BUSHINGS WITH NEW AND -51 BOLT	32 20	N	9/4	.4		[illegible]	[illegible]

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289 ND

Work Order #: 1081863

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
18	Nose gear strut needs	32 20	1.	INSTALLED (3) SHIMS	32 20	N	9/4	.8		mjm	
	to be shimmed			AND SAFETY-WIRED							
				BOLTS							
19	Shimmy damper bolt	32 20	1	tightened shimmy	32 20	N	9/4	0.2		BLT	
	needs to be tightened			damper bolt							
20	Nose gear torque link	32 20	1	tightened nose gear	32 20	N	9/4	0.2		BLT	
	bolt loose			torque link bolt							

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND

Work Order #: 1081863

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
21	Inspector time	0560	1	Same	0560	A1	9/4	3.0		[illegible]	[illegible]

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.

Authorized Signature [signature]

Date 9-4-69

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1082029
Tech: DTL
Shop Code: F
Equip Code: A
Opened: 9/9/2009 12:39

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt'l)
Date closed: 09/09/09

ustomer: UND Acct#: 205922230 Preliminary Insp MES In Progress Insp MES

N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,353.6 A/F Tach: 6,265.4 Init DTL

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,437.8	6,437.8
I-360-C1C6	L2718951A	ENGINE (ARROW)	1,756.5	3,304.2
2D34C213	040839	PROPELLER	841.7	2,991.6

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
Oil Door latch is broken	7110	1	Replaced Oil Door latch.	7110	N	9/09	.5		DTL	MES
Inspection time	0560	1	time	0560	N	9/9	.1		MES	MES

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 OQSR092Y

Authorized Signature
Date 9/9/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1082096
Tech: NJG
Shop Code: *
Equip Code: A
Opened: 9/10/2009 15:25

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)
Date closed: 9/10/09

Customer: UND Acct#: 205922230

Preliminary Insp
In Progress Insp

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,358.7 A/F Tach: 6,269.0 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,441.4	6,441.4
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,760.1	3,307.8
B2D34C213	040839	PROPELLER	845.3	2,995.2

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	gear would not extend w/ pump, pilot used emergency extension, up hyraulic line at pump cracked	32 30	1	replaced up hydraulic line at pump, serviced hydraulic system with M.I.L-H-5606, cycled gear, ops check good, leak check good	32 30	N	9/10	2.5		NJG	
2	inspector time	05 60	1	time	05 60	N	9/10	.3			

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.

Authorized Signature
Date 9-10-09

INSPECTION SUPPLEMENT AND WORK ORDER

Page 1 of 1

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1082216
Tech: MES
Shop Code: F
Equip Code: A
Opened: 9/14/2009 11:32

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)
Date closed: 9/14/09

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

A/C#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,370.0 A/F Tach: 6,277.2 Init MES

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,449.6	6,449.6
O-360-C1C6	L2718951A	ENGINE (ARROW)	1,768.3	3,316.0
82D34C213	040839	PROPELLER	853.5	3,003.4

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	landing light inop	3340	C	Replaced lamp, ops O.K.	3340	C	9/14	.5		MES	MES
				26593894P							
				mike Skold							

[redacted]

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1082635
Tech: TWD
Shop Code: W
Equip Code: A
Opened: 9/23/2009 8:16

OBTAIN ALL INITIALS BEFORE FILING

R/A: BY
Parts (opt'l):
Date closed: 9-23-09 BY

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

A/C#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,419.8 A/F Tach: 6,314.9 Init TWD

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,487.3	6,487.3
O-360-C1C6	L2718951A	ENGINE (ARROW)	1,806.0	3,353.7
82D34C213	040839	PROPELLER	891.2	3,041.1

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	Aircraft needs to	1220	1	Washed aircraft	1220	N	9-23	0.6		TWD	
	be washed				1220	N	9-23	1.5		GAK	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1082667
Tech: DJG
Shop Code: F
Equip Code: A
Opened: 9/23/2009 14:55

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt!)
Date closed: 9-23-09

Customer: UND Acct#: 205922230 Preliminary Insp MES In Progress Insp MES

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,419.8 A/F Tach: 6,314.9 Init DJG

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,487.3	6,487.3
O-360-C1C6	L2718951A	ENGINE (ARROW)	1,806.0	3,353.7
92D34C213	040839	PROPELLER	891.2	3,041.1

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	Phase 4 INSP	0520	1		0520	N	9/23	3.8		DJG	MES
	DUE					N	9/23	4.0		SJL ~~JS~~	MES
										SJL	MES
2	AD2008-14-07	0400	1	Complied with	0400	N	9/23	.3		DJG	MES
	Fuel Injection			AD 2008-14-07							
	Lines INSP			No Defects noted							
	Effective Date			Due next 6,377.6							
	8-14-08										

This aircraft has been inspected in accordance
With a(n) Phase 4
Inspection, including, as applicable a routine
inspection of cabin, fuselage
Empennage, wings and Landing gear
And a detailed inspection of Engine
and propeller
Completion Date 9-23-09

[redacted]

INSPECTION SUPPLEMENT AND WORK ORDER Page 2 of 3

Reg#: (N) 289ND Work Order #: 1082667

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
3	SB UNO 8 wiring	0550	1	Completed th	0550	N	9/23	.3		DJG	MES
	Spar Chafing			SB UNO 8 NO							
				defects noted							
				Due next 6,377.6							
4	Induction air filter	7100	1	Replaced air	7100	N	9/23	.3		DJG	MES
	DUE			Filter							
				Due next 6,514.9							
5.	Lt Recognition Light	3340	1	Replaced Rec	3340	N	9/23	.5		DJG	MES
	MEL.			Light ops checks							
				good.							

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 28900

Work Order #: 1082667

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
6	Co-pilots seat	2510	1	Replace springs	2510	N	9/23	.5		JJG	MES
	Back springs broken					N	9/23	.5		SJL	MES
7	Nicks in prop	6100	1	Dress prop	6100	N	9/25	.3		OJT	MES
8	#2 Intake gasket leaking	7230	1	Replace intake gasket	7230	N	9/25	.3		OJT	MES

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND

Work Order #: 1082667

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
9	#4 INTAKE gasket Leaking	7230	1	Replaced INTAKE gasket	7230	N	9/23	.3		OJG	MES
10	#2 Top and Bottom Spark plugs worn Beyond Limits	7420	1	Replaced Spark plugs	7420	N	9/23	.2		OJG	MES
11	AIR Filter cover WORN THRU.	7100	1	Replaced Air Filter Cover	7100	N	9/23	.2		OJG	MES

INSPECTION SUPPLEMENT AND WORK ORDER

Page 5 of 5

Reg#: (N) 289ND

Work Order #: 082667

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
12	Lt ~~Aft~~ Fwd Baffling	7230	1	Replaced Baffle	7230	N	9/23	.5		DJG	MES
	CRACKED AND WORN										
	THRU.										
13	FWD Muffler	7820	1	Replaced muffler	7820	T	9/23	.5 DJG +1.0		DJG	MES
	BLOWN OUT			P/N 67517-000		T	9/23	1.0		SJ	MES
	P/N 67517-000			S/N 9664							
	S/N 8379										
14	~~INSpection~~ Time	0560	1	Inspection time	0560	N	9/23	2.0		MES	MES

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 OG5R082N

Authorized Signature

Date 9/23/9

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1083264
Tech: JPH
Shop Code: W
Equip Code: A
Opened: 10/12/2009 11:13

OBTAIN ALL INITIALS BEFORE FILING

R/A 89

Parts (opti) _____

Date closed: 10/12/2007

89

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,486.3 A/F Tach: 6,364.6 Init MEM

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,537.0	6,537.0
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,855.7	3,403.4
B2D34C213	040839	PROPELLER	940.9	3,090.8

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Aircraft needs to	1220	1	Aircraft Washed	1220	N	10-12	0.2		SAM	
	be washed				1220	N	10-12	0.8		MEM	
					1220	N	10-12	0.8		JPH	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1082862
Tech: CAB
Shop Code: F
Equip Code: A
Opened: 9/29/2009 11:54

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)
Date closed: 9/29/09

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,444.7 A/F Tach: 6,335.3 Init CP

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,507.7	6,507.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,826.4	3,374.1
B2D34C213	040839	PROPELLER	911.6	3,061.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	R/H forward Cowling latch Found broken on post flight.	7/10	1	Removed latch + installed serviceable latch, + Adjusted, ops check good A+P 2845542 Cole Bladen	7/10	N	9/29	1.0		CB	CB

INSPECTION SUPPLEMENT AND WORK ORDER

Page 1 of 1

egard School of Aerospace Sci.
versity of North Dakota
nd Forks Intl. Airport
k Andrews Field
nd Forks, ND 58202

WKO#: 1081364
Tech: MRS
Shop Code: F
Equip Code: I
Opened: 8/17/2009 11:48

OBTAIN ALL INITIALS BEFORE FILING

R/A _____
Parts (opti) _____
Date closed: 8/17/09

tomer: UND Acct#: 224142235 Preliminary Insp _____ In Progress Insp _____

AcftType: Bill Meter: A/F Tach: Init _____

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
Cowl Latch Assy P/N 65202-002 needs to be Inspected for Serviceability	71-10	1	Inspected and Found to be Serviceable	71-10	N	8/17	.2		MRS	MRS

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature Morgan Strand
Date 8/17/09

PARTS INCOMING INSPECTION

Date Rec'd _____ Clerk _____
PO #/Batch # _____
Inspected by _____
Date App'd _____ Clerk _____
Inv # _____

INSPECTION SUPPLEMENT AND WORK ORDER

Page 1 of 1

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1082897
Tech: CAB
Shop Code: F
Equip Code: A
Opened: 9/30/2009 7:19

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)

Date closed: 9/30/09

Customer: UND Acct#: 205922230 Preliminary Insp Insp In Progress Insp

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,450.3 A/F Tach: 6,337.7 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,510.1	6,510.1
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,828.8	3,376.5
B2D34C213	040839	PROPELLER	914.0	3,063.9

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Oil observed on windshield & front window after take-off. Pilot not get any more during flight, oil pressure normal through out flight.	7110	1	Inspected A/C & found solution to be de-icing solution. NO oil found on cowl or wind shield. Also Run A/C no oil leaks found.	7100	N	9/30	1.0		CAB	
2	Insp time	0560	1	Time	0560	N	9/30	.1			

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature
Date 9/30/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1083125
Tech: MCS
Shop Code: F
Equip Code: A
Opened: 10/7/2009 14:39

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt'l)
Date closed: 10-7-2009

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,463.6 A/F Tach: 6,347.5 Init MCS

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,519.9	6,519.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,838.6	3,386.3
B2D34C213	040839	PROPELLER	923.8	3,073.7

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Aircraft would not start	80 00	1	Started aircraft ops check good Michael Smith A&P 3124441 Michael Smith	80 00	N	10/7	.3		MCS	MCS

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1083131
Tech: MES
Shop Code: F
Equip Code: A
Opened: 10/7/2009 15:18

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opti)

Date closed: 10/7/09

ustomer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,463.6 A/F Tach: 6,347.5 Init MES

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,519.9	6,519.9
)-360-C1C6	L2718951A	ENGINE (ARROW)	1,838.6	3,386.3
2D34C213	040839	PROPELLER	923.8	3,073.7

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
landing light Insp	3340 MES	I	Replaced lamp, OPS O.K.	3340 MES	U	10/7	.5		MES	
			Mel Stud 2659389AP							

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1083230
Tech: MES
Shop Code: F
Equip Code: A
Opened: 10/10/2009 9:55

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (opti) [initials]
Date closed: 10/10/09

ustomer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,476.3 8477.5 A/F Tach: ~~6,356.4~~ 6357.3 Init MEA

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,528.8	6,528.8
-360-C1C6	L2718951A	ENGINE (ARROW)	1,847.5	3,395.2
2D34C213	040839	PROPELLER	932.7	3,082.6

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
Flat tire	32 40	1	Removed & Replaced	32 40	N	10/10	1.5		MEA	
NoSd			tire Assembly tire							
in Steven, MN			P/N 505C665							
tire P/N 505C665			S/N 90980256							
S/N 83440054			[signature]							
			AP 3038194							
			Mike Agotness							

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1083273
Tech: DTL
Shop Code: F
Equip Code: A
Opened: 10/12/2009 14:55

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt) 1
Date closed: 10/12/09

Customer: UND Acct#: 205922230 Preliminary Insp MSR In Progress Insp MES

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,486.3 A/F Tach: 6,364.6 Init DTL

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,537.0	6,537.0
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,855.7	3,403.4
B2D34C213	040839	PROPELLER	940.9	3,090.6

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Phase 1 Insp. due	0520	1		0520	N	10/12	3.5		DTL	MES
				This aircraft has been inspected in accordance With a(n) Phase 1		N	10/12	4.0		Rus	MES
				~~inspection, including, as applicable a routine~~ inspection of Eng. + propeller, wings and landing gear		N	10/12	3.0		SSL	MES
				And a detailed inspection of Fuselage, cabin + tail empennage							
				~~Completion Date~~ 10/12/09							
2	SL 1087 Wng aft spar bolt torque check due	0550	1	Check torque IAW SL-1087, found ok Next Due: 6497.6	0550	N	10/12	.3		Rus	MES

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND

Work Order #: 1083223

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
3	AD 2008-14-07 Fuel	0400	1	Insp. fuel Inj.	0400	N	10/12	.2		DTL	MES
	Inj. line insp. due			lines + fit clamps. Found							
	Effective date: 08/14/08			OK. Next due: 6437.6 tach							
4	SB UND4 ELT "C"	2560	1	tested ELT "C"	2560	N	10/12	.3		RWS	MES
	switch test due			switch TRANSMITTED							
				good OK							
				Next Due: 6617.6							
5	SB UND8 Wing Spar	5710	1	No chafing Found.	5710	N	10/12	.1		DTL	MES
	Chafing due										

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289NP

Work Order #: 1083223

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
6	Instrument Filter	0520	1	Replaced Instrument	3210	N	10/12	.4		DTL	MES
	replacement (500 hr)			Filters. Next							
	due			due at 6,864.6	Tech						
7	Lt. Inboard insp.	5730	1	Replaced screw	5730	N	10/12	.2		RWS	MES
	panel missing screw										
8	Rt. MLG spiral	3210	1	Applied chafe tape	3210	N	10/12	.2		SSL	MES
	needs chafe tape.					N	10/12	.1		SSL	MES

INSPECTION SUPPLEMENT AND WORK ORDER Page 4 of 5

Reg#: (N) 289ND Work Order #: 1683273

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
9	Rudder top, Left, Fwd, fairing screw is loose.	5540	1	tightened screw	5540	N	10/12	.2		RWS	MES
10	PROP has nicks	6100	1	dressed prop	6100	N	10/12	.2		SJL	MES
							10/12	.1		RWS	MES
11	Lower cowl is missing screw, Rt. Fwd. area by gear door.	7110	1	Installed new screw.	7110	N	10/12	.1		DTL	MES
12	Flap handle worn at cable connection point.	2750	1	Removed flap handle. Found Flap handle OK. Replaced bushing & bolt. Reinstalled flap handle & safetied.	2750	N	10/12	.5		DTL	MES

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289WD

Work Order #: 1083273

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
13	1# cyl. lower Baffle cracked	72 30	1	Replaced Baffle	72 30	N	10/12	.5		Plus	MES
14	Insp time	0560	1	time	0560	N	10/12	2.0		MES	MES

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 OG5R090N

Authorized Signature

Date 10/12/09

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
iversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1083416
Tech: DTL
Shop Code: F
Equip Code: A
Opened: 10/16/2009 17:29

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)
Date closed: 10/16/09

ustomer: UND Acct#: 205922230 Preliminary Insp In Progress Insp

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,499.5 A/F Tach: 6,373.9 Init DTL

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,546.3	6,546.3
-360-C1C6	L2718951A	ENGINE (ARROW)	1,865.0	3,412.7
2D34C213	040839	PROPELLER	950.2	3,100.1

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
Rt. Rec. light	3340	1	Removed & replaced	3340	N	10/16	.5		CMW	
Insp.			Rt. rec light. Ops		N	10/16	.1		DTL	
			checked good.							
Insp. time	05/60	1	time	05/60	N	10/16	.3			

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 OG5R009N

Authorized Signature
Date 10-16-09

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1083445
Tech: KHP
Shop Code: A
Equip Code: A
Opened: 10/19/2009 6:21

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)

Date closed: 10/19/2009

ustomer: UND Acct#: 205922230 Preliminary Insp KHP In Progress Insp KHP

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,509.1 A/F Tach: 6,381.5 Init

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,553.9	6,553.9
)-360-C1C6	L2718951A	ENGINE (ARROW)	1,872.6	3,420.3
2D34C213	040839	PROPELLER	957.8	3,107.7

)	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
	Right side PTT switch INOP	23 10	1	Replaced co-pilot PTT switch. New switch ops checks good.	23 10	N	10/19	1.0		THM	KHP

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.

Authorized Signature
Date 10/19/09

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1083451
Tech: THM
Shop Code: A
Equip Code: A
Opened: 10/19/2009 8:35

OBTAIN ALL INITIALS BEFORE FILING

R/A [signature]
Parts (optl) _____
Date closed: 10/19

86

ustomer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,509.1 A/F Tach: 6,381.5 Init _____

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,553.9	6,553.9
-360-C1C6	L2718951A	ENGINE (ARROW)	1,872.6	3,420.3
2D34C213	040839	PROPELLER	957.8	3,107.7

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
Please Close										

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1083452
Tech: THM
Shop Code: A
Equip Code: A
Opened: 10/19/2009 9:43

OBTAIN ALL INITIALS BEFORE FILING

R/A KHP
Parts (opt) KHP

Date closed: 10/19/09

ustomer: UND Acct#: 205922230 Preliminary Insp KHP In Progress Insp KHP

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,509.1 A/F Tach: 6,381.5 Init FS

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,553.9	6,553.9
-360-C1C6	L2718951A	ENGINE (ARROW)	1,872.6	3,420.3
HD34C213	040839	PROPELLER	957.8	3,107.7

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
GDL90 needs	34 00	1	Replaced GDL90	34 00	N	10/19	2.0		THM	KHP
to be removed			with upgraded unit.							
for hardware			Installed unit							
upgrade			ops checks good							
			installed p/n GDL90 ~~-ADS~~							
			s/n 2910 1060							
			removed p/n GDL90-ADSB							
			s/n 2910 0924							

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

Authorized Signature
Date 10/19/09

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**RMA # 580844**

4. Organization Name and Address	5. Work Order/Contract/Invoice Number:
GARMIN AT Inc. 2345 Turner Road S.E. Salem, Oregon 97302 (CRS/JC6R634N)	**PO # 1030065**

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1.	GDL90 UAT Data Link Sensor	430-6081-100-000 MODS: HW ABDEG SW CD	N/A	1	**29101060**	**Modified**

13. Remarks

All work performed was in accordance with FAA approved data. The work order detailing the actual work performed is attached or on file at GARMIN AT Inc.
Work performed, with reference to Factory Service Manual 560-7031-000, Rev: --, Dated Feb.14, 2005

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/ Authorization No:	20. Authorized Signature:	21. Approval/Certificate No.: **CRS/JC6R634N**
17. Name *(Typed or Printed)*:	18. Date:	22. Name (Typed or Printed): HIEU VAN NGUYEN	23. Date(m d y): Oct 12 2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) * Installer must cross check eligibility with applicable technical data. NSN: 0052-00-012-9005



1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**RMA # 580844**

4. Organization Name and Address	5. Work Order/Contract/Invoice Number:
GARMIN AT Inc. 2345 Turner Road S.E. Salem, Oregon 97302 (CRS/JC6R634N)	**PO # 1030065**

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1.	GDL90 UAT Data Link Sensor	430-6081-100-000 MODS: HW ABDEG SW CD	N/A	1	**29101060**	**Modified**

13. Remarks

All work performed was in accordance with FAA approved data. The work order detailing the actual work performed is attached or on file at GARMIN AT Inc.
Work performed, with reference to Factory Service Manual 560-7031-000, Rev: --, Dated Feb.14, 2005

14. Certifies the items identified above were manufactured in conformity to:	19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13
☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in block 13.	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/ Authorization No:	20. Authorized Signature:	21. Approval/Certificate No.: **CRS/JC6R634N**
17. Name *(Typed or Printed)*:	18. Date:	22. Name (Typed or Printed): HIEU VAN NGUYEN	23. Date(m d y): Oct 12 2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01)

* Installer must cross check eligibility with applicable technical data.

NSN: 0052-00-012-9005

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1083487
Tech: RWS
Shop Code: F
Equip Code: A
Opened: 10/19/2009 16:50

OBTAIN ALL INITIALS BEFORE FILING

R/A RWS
Parts (opti) RWS

Date closed: 10-19-09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 6,509.7 A/F Tach: 6,381.5 Init RWS

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,553.9	6,553.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,872.6	3,420.3
B2D34C213	040839	PROPELLER	957.8	3,107.7

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	"ALT" light came on during taxi	24 30	1	Ran A/C with electrical load on alt, could not duplicate problem. Richard Steinke AP1744701	24 30	N	10/19	.7		RWS	

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
lark Andrews Field
rand Forks, ND 58202

WKO#: 1083557
Tech: HCJ
Shop Code: F
Equip Code: A
Opened: 10/21/2009 20:44

OBTAIN ALL INITIALS BEFORE FILING

R/A HCJ
Parts (optl) HCJ

Date closed: 10/21/2009

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

##: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,517.2 A/F Tach: 6,386.8 Init HCJ

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,559.2	6,559.2
O-360-C1C6	L2718951A	ENGINE (ARROW)	1,877.9	3,425.6
32D34C213	040839	PROPELLER	963.1	3,113.0

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Reports NLG Indicator Lamp is Burnt Out.	33 00	1	Removed and Replaced NLG Indicator Lamp. Ops Check Good	33 00	N	10/21	0.5		HCJ	HCJ

Harlan Jensen
A&P 2232360IA

INSPECTION SUPPLEMENT AND WORK ORDER

degard School of Aerospace Sci.
niversity of North Dakota
rand Forks Intl. Airport
ark Andrews Field
rand Forks, ND 58202

WKO#: 1083736
Tech: CSG
Shop Code: F
Equip Code: A
Opened: 10/28/2009 15:27

OBTAIN ALL INITIALS BEFORE FILING

R/A [signature]
Parts (optl)

84

Date closed: 10-28-09

ustomer: UND Acct#: 205922230 Preliminary Insp MSB In Progress Insp MSB

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,551.7 A/F Tach: 6,412.8 Init [initials]

art#	Serial#	Description	TSO	Total Time
A28R-201	2844039	AIRFRAME (ARROW)	6,585.2	6,585.2
)-360-C1C6	L2718951A	ENGINE (ARROW)	1,903.9	3,451.6
2D34C213	040839	PROPELLER	989.1	3,139.0

D	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
	Stab trim very hard to move in flight	27 30	1	~~Cleaned~~ 56 Inspected trim system, no defects noted, cleaned & lubed jack screw & barrel opschecked good	27 30	N	10/28	.8		56	MSB
	Inspection time	05 60	1	Inspected	05 60	N	10-28	.2		MSB	MSB

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

Authorized Signature [signature]
Date 10-28-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1083870
Tech: BVI
Shop Code: F
Equip Code: A
Opened: 11/3/2009 11:41

OBTAIN ALL INITIALS BEFORE FILING

R/A BVI
Parts (optl) BVI
Date closed: 11-3-09

Customer: UND Acct#: 205922230 Preliminary Insp BVI In Progress Insp BVI

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,572.5 A/F Tach: 6,428.2 Init BVI

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,600.6	6,600.6
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,919.3	3,467.0
B2D34C213	040839	PROPELLER	1,004.5	3,154.4

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Alternator inop	24 00	1	Removed and replaced Alternator, ops check good	24 00	N	11/3	3.0		BVI	BVI
	PN# ALX8521R			PN# ALX-8521LS							
	SN# H091326			SN# J030341							
2	Rec light inop L/H	33 40	1	Removed and replaced recognition light bulb on L/H	33 40	N	11/3	0.7		BVI	BVI
3	Inspection	05 60	1	time	05 60	N	11/3	1.0		BVI	BVI

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

Authorized Signature
Date 11-3-09

1. Approving National Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	J030341

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
KELLY AEROSPACE POWER SYSTEMS, 2900 SELMA HWY., MONTGOMERY, AL. 36108 PQ1383CE-D	MQ52580

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	ALTERNATOR - NEW **** END ****	ALX-8521LS	N/A	1	J030341	NEW

13. Remarks:

AIRWORTHINESS APPROVAL- PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.

14. Certifies the items identified above were manufactured in conformity to:

- ☒ **Approved design data and are in a condition for safe operation.**
- ☐ **Non-approved design data specified in Block 13.**

19. ☐ **14 CFR 43.9 Return to Service** ☐ **Other regulation specified in Block 13**

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No:
Michael C. Strickland	DMIR142102CE		
17. Name (Typed or Printed):	**18. Date (m/d/y):**	**22. Name (Typed or Printed):**	**23. Date (m/d/y):**
MICHAEL C. STRICKLAND	MAR/26/2009		

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) *Installer must cross-check eligibility with applicable technical data. NSN: 0052-00-012-9005

ESICODE: ALX-8521LS

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand ~~Forks~~ Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1083891
Tech: THM
Shop Code: A
Equip Code: A
Opened: 11/3/2009 16:35

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)
Date closed: 11-3-09

Customer: UND Acct#: 205922230 Preliminary Insp MSB In Progress Insp MSB

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,572.5 A/F Tach: 6,428.2 Init One

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,600.6	6,600.6
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,919.3	3,467.0
B2D34C213	040839	PROPELLER	1,004.5	3,154.4

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	ADF INOP p# KR-87 Se# 72353	34 00	1	Inspected found ADF Receiver flickering replaced ~~wpn#~~ with p# KR-87 Se# 35275 opi check good	34 00	N	11/3	2.0		One	MSB
2	Inspection time	05 60	1	Inspected	05 60	N	11-3	.1		MSB	MSB

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.

Authorized Signature Mike Bellah
Date 11-3-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1083923
Tech: NRP
Shop Code: W
Equip Code: A
Opened: 11/4/2009 18:07

OBTAIN ALL INITIALS BEFORE FILING

R/A NRP
Parts (optl)

Date closed: 10/4/2009

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,579.1 A/F Tach: 6,432.9 Init NRP

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,605.3	6,605.3
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,924.0	3,471.7
B2D34C213	040839	PROPELLER	1,009.2	3,159.1

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Aircraft Needs	1220	1	Aircraft Washed	1220	N	10/4	1.0		NRP	
	to be washed				1220	N	10/4	1.0		ATH	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1083928
Tech: MES
Shop Code: F
Equip Code: A
Opened: 11/5/2009 6:27

OBTAIN ALL INITIALS BEFORE FILING

R/A 84
Parts (optl) _____
Date closed: 11/6/09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,579.1 A/F Tach: 6,432.9 Init MNJ

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,605.3	6,605.3
O-360-C1C6	L2718951A	ENGINE (ARROW)	1,924.0	3,471.7
B2D34C213	040839	PROPELLER	1,009.2	3,159.1

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
	Phase 2 Insp. Due	05:20	1	FOR BILLING PURPOSES ONLY Work Performed by: GFK Flight Support see log Entry attached below	05:20	N	11/6	.5		MNJ	

GFK FLIGHT SUPPORT

GRAND FORKS INTERNATIONAL AIRPORT
2467 AIR CARGO DRIVE • GRAND FORKS, ND 58203

Air Frame Logbook Insert

Date: 11/06/2009; Aircraft: 289ND; Type: ARROW; S/N: 2844039; Hobbs: 8579.1; Tach: 6432.9; Total Time: 6605.3; Engine - Type: IO-360-C1C6, S/N: L2718951A, Time: 1924.0; Prop - Type: B2D34C213, S/N: 002282, Time: 1009.2; Work Done At - Airframe Time: 6605.3,, Engine Time: 1924.0,
Completed a phase 2 inspection in reference to a U.N.D. progressive inspection checklist, comp. test: #1 76/80, #2 74/80, #3 76/80, #4 75/80, drained oil and removed filter, serviced engine with 8 qts. Aeroshell 15W50 and a CH48110-1 filter, C/W AD2008-14-07 fuel injection lines inspection amended 8/14/2008, C/W SB UND8 wing spar chafing, replaced right main tire and tube, replaced right brake pads, replaced right and left cowl pin bushings, run up and leak check good.

"I certify that in accordance with a progressive inspection program, a routine inspection of Cabin, fuselage, tail, wings, Gear and a detailed inspection of Engine & Prop were performed and this Aircraft is approved for return to service"

Bob Martin
A&P 4718246331A
Bob Martin

INSPECTION SUPPLEMENT AND WORK ORDER

legard School of Aerospace Sci.
iversity of North Dakota
and Forks Intl. Airport
ırk Andrews Field
and Forks, ND 58202

WKO#: 1083975
Tech: MES
Shop Code: F
Equip Code: A
Opened: 11/6/2009 11:24

OBTAIN ALL INITIALS BEFORE FILING

R/A 89

Parts (optl) _____

Date closed: 11/6/09

84

istomer: UND Acct#: 205922230 Preliminary Insp MES In Progress Insp MES

: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,579.1 A/F Tach: 6,432.9 Init

rt#	Serial#	Description	TSO	Total Time
28R-201	2844039	AIRFRAME (ARROW)	6,605.3	6,605.3
-360-C1C6	L2718951A	ENGINE (ARROW)	1,924.0	3,471.7
D34C213	040839	PROPELLER	1,009.2	3,159.1

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
POH Rev. 21 due	2560	1	INSERTED POH REVISION 21 DATED SEP 30,09	2560	N	11/06	.2			MES
Inspection time	0560	1	time	0560	N	11/6	.1		MES	MES

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 OGSR092M

Authorized Signature

Date 11/6/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1083987
Tech: CSG
Shop Code: F
Equip Code: A
Opened: 11/6/2009 18:07

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)

Date closed: 11/07/09

Customer: UND Acct#: 205922230 Preliminary Insp MSB In Progress Insp SB

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,579.8 A/F Tach: 6,432.9 Init SC

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,605.3	6,605.3
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,924.0	3,471.7
B2D34C213	040839	PROPELLER	1,009.2	3,159.1

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	During taxi, HSI, ADF,	2400	1	Removed Cowling, Removed battery	2400	N	11/06	1.0		CSG	MSB
	tx, ~~then~~ ISC COM, & eventually			& placed on charger							
	every thing failed,		2	CK'D CHARGE ON BATTERY	2400	N	11/07	2.0		MJB	SB
	AC had no power at all,			OK - INSTALLED. INSTALLED							
	Ammeter read zero,			COWLING - RUN-UP CK							
	Alt light never aluminated,			GOOD SYSTEMS CK GOOD.							
	alt light tested good										
2	Insp time	0560	1	Time	0560	N	11/07	.3		SB	SB

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature [signature]
Date 11/07/09

INSPECTION SUPPLEMENT AND WORK ORDER

egard School of Aerospace Sci.
iversity of North Dakota
and Forks Intl. Airport
irk Andrews Field
and Forks, ND 58202

WKO#: 1084132
Tech: THM
Shop Code: A
Equip Code: A
Opened: 11/11/2009 10:09

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)

Date closed: 11/13/09

stomer: UND Acct#: 205922230 Preliminary Insp Jm In Progress Insp Jm

: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,606.9 A/F Tach: 6,453.1 Init

rt#	Serial#	Description	TSO	Total Time
28R-201	2844039	AIRFRAME (ARROW)	6,625.5	6,625.5
-380-C1C6	L2718951A	ENGINE (ARROW)	1,944.2	3,491.9
D34C213	040839	PROPELLER	1,029.4	3,179.3

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
HDG flag appears during taxi.	34 20	I	Inspected OG. Reseated connection on OG. Taxied around for several minutes and was unable to duplicate	34 20	N	11/12	3.0		THM	Jm

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.

Authorized Signature
Date 11-13-2009

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
~~University of North~~ Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1084238
Tech: CSG
Shop Code: F
Equip Code: A
Opened: 11/13/2009 18:21

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)

Date closed: 11-13-09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,606.9 A/F Tach: 6,455.0 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,627.4	6,627.4
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,946.1	3,483.8
B2D34C213	040839	PROPELLER	1,031.3	3,181.2

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Engine cowl latch is broken on R/H side of airplane	71 10	1	Removed & replaced broken latch Clark Gebhard ASP2769406 Clark Gebhard	71 10	N	11/13	.7			
							11/13	.7			

INSPECTION SUPPLEMENT AND WORK ORDER

Page 1 of 1

egard School of Aerospace Sci.
versity of North Dakota
and Forks Intl. Airport
rk Andrews Field
and Forks, ND 58202

WKO#: 1084353
Tech: RMK
Shop Code: F
Equip Code: A
Opened: 11/17/2009 13:29

OBTAIN ALL INITIALS BEFORE FILING

R/A 89
Parts (opt) 89

Date closed: 11/17

stomer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,632.9 A/F Tach: 6,475.3 Init

	Serial#	Description	TSO	Total Time
#			6,647.7	6,647.7
R-201	2844039	AIRFRAME (ARROW)	1,966.4	3,514.1
0-C1C6	L2718951A	ENGINE (ARROW)	1,051.6	3,201.5
4C213	040839	PROPELLER		

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DTI	Tech	Insp

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1084403
Tech: CSG
Shop Code: F
Equip Code: A
Opened: 11/18/2009 17:34

OBTAIN ALL INITIALS BEFORE FILING

R/A [initials]
Parts (optl)
Date closed: 11-18-09

Customer: UND Acct#: 205922230 Preliminary Insp [initials] In Progress Insp [initials]

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,639.6 A/F Tach: 6,477.3 Init [initials]

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,649.7	6,649.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,968.4	3,516.1
B2D34C213	040839	PROPELLER	1,053.6	3,203.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	Alternator Inop. ADSB not opperating properly ADF not working. Ammeter not showing charge PN:G35 SN:G02353219	24 00	1	Removed old Battery & installed new PN:G35$ SN:G02473443 Battery, Ran AC, electrical system ops checked good cap. check due 10-31-10 +/or 7277.3	24 00	N	11/18	1.5		[initials]	[initials]
2	landing light inop	33 40	1	Removed & Replaced landing light, ops checked good	33 40	N	11/18	.5		[initials]	[initials]
3	Insp. time	05/60	1	time	05/60	N	11/18	.5		[initials]	[initials]

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.

Authorized Signature [signature]
Date 11-18-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1084421
Tech: MSB
Shop Code: F
Equip Code: A
Opened: 11/19/2009 10:04

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)
Date closed: 11-19-09

Customer: UND Acct#: 205922230 Preliminary Insp In Progress Insp

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,640.0 A/F Tach: 6,477.3 Init MSB

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,649.7	6,649.7
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,968.4	3,516.1
B2D34C213	040839	PROPELLER	1,053.6	3,203.5

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Lt mag RPM drops more than 300 RPM and rough.	74 00	1	Cleaned gapped + tested all spark plugs. Replaced #4 bottom plug with new Mag check good	74 00	N	11-19	1.0		MSB	
2	Inspection	0560	1	Insp	0560	N	11/19	.2			

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 and is airworthy and approved for return to service. Certified Repair Station 0GSR092N

Authorized Signature
Date 11-19-09

INSPECTION SUPPLEMENT AND WORK ORDER

Page 1 of 1

gard School of Aerospace Sci.
ersity of North Dakota
nd Forks Intl. Airport
k Andrews Field
nd Forks, ND 58202

WKO#: 1084439
Tech: THM
Shop Code: A
Equip Code: A
Opened: 11/19/2009 15:18

OBTAIN ALL INITIALS BEFORE FILING

R/A KHP
Parts (optl) 1

Date closed: 11/21/09

tomer: UND Acct#: 205922230 Preliminary Insp KHP In Progress Insp KHP

N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,641.6 A/F Tach: 6,478.3 Init TA

#	Serial#	Description	TSO	Total Time
28R-201	2844039	AIRFRAME (ARROW)	6,650.7	6,650.7
360-C1C6	L2718951A	ENGINE (ARROW)	1,969.4	3,517.1
034C213	040839	PROPELLER	1,054.6	3,204.5

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
HSI HDG flag	34 00	1	Replaced HSI. Installed	34 00	N	11/21	1.5		THM	KHP
appeared occasionally			HSI ops checks good							
then appeared			removed p/n KI-525A							
continuously			s/n X92309							
			installed p/n KI525A							
			s/n 90136							
Heading was	34 00	1	Replaced directional	34 00	N	11/21	1.5		THM	KHP
inaccurated and			gyro. Installed unit							
turned opposite			ops checks good							
direction			removed p/n KG-102A							
			s/n 49409							
			installed p/n KG-102A-loaner							
			s/n 6888							
			on loan from duncan							

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 OG5R092K.

Authorized Signature

Date 11/21/09

1. ...TATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: L41ZA0328003001

4. ...e and Address: ...iation/Lincoln Airport/Lincoln, NE 68524 JGVR194F				5. Work Order/Contract/Invoice Number: L41ZA	
6. Description: ...DIRECTIONAL GYRO	8. Part Number: 060-0015-00	9. Eligibility: * N/A	10. Quantity: 1	11. Serial/Batch Number: 6888	12. Status/Work: INSPECTED

13. ...marks:

...stomer: DUNCAN AVIATION

Discrepancy: Recertify loaner.

Preliminary findings: Function tested and found unit to be in serviceable condition.

Corrective action: Unit functional tested per HONEYWELL KG 102A Directional Gyro Maintenance Manual, Revision 7, dated 03/01/2002.

Duncan Aviation certifies that the work specified in Blocks 12 and 13 was performed I.A.W. EASA Implementation Rule part 145 approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA approval number 145.4392.

All EASA/FAA Airworthiness Directives are the responsibility of the installer.

No current U.S. Airworthiness Directives apply.

Technician: MICHAEL T. GOLDSMITH

This document constitutes a signed copy of the work order

Approval for return to service

14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.		19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulations specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
15. Authorized Signature:	16. Approval Authorization No.:	20. Authorized Signature: DUNCAN QI 14	21. Approval/Certificate No.: JGVR194F
17. Name (Type or Printed):	18. Date (m/d/y):	22. Name (Type or Printed): JERRY L. BREMER	23. Date (m/d/y): Sep 01, 2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in blocks 14 and 19 do not constitute installations certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) * Installer must cross-check eligibility with applicable technical data. NSN-0052-00-012-9005

INSPECTION SUPPLEMENT AND WORK ORDER

gard School of Aerospace Sci.
ersity of North Dakota
nd Forks Intl. Airport
< Andrews Field
nd Forks, ND 58202

WKO#: 1084480
Tech: THM
Shop Code: A
Equip Code: A
Opened: 11/21/2009 11:32

OBTAIN ALL INITIALS BEFORE FILING

R/A KH
Parts (opt) _____

Date closed: 11/30/09

tomer: UND Acct#: 205922230 Preliminary Insp KHP In Progress Insp KHP

N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,641.6 A/F Tach: 6,478.3 Init FA

#	Serial#	Description	TSO	Total Time
28R-201	2844039	AIRFRAME (ARROW)	6,650.7	6,650.7
360-C1C6	L2718951A	ENGINE (ARROW)	1,969.4	3,517.1
034C213	040839	PROPELLER	1,054.6	3,204.5

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
GPS wont	34 00	1	Replaced GPS antenna	34 00	N	11/21	1.0		THM	KHP
acquire signal			and inspected wiring.			11/29	1.0		THM	KHP
removed			GPS now aquires							
KA 92			satellite signal and							
33390			signal remains strong.							
			Ops checks good							
			Cleared MEL							
			INSTALLED KA92							
			S/N 297076							

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

Authorized Signature
Date 11/30/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1084581
Tech: ATH
Shop Code: W
Equip Code: A
Opened: 11/24/2009 17:55

OBTAIN ALL INITIALS BEFORE FILING

R/A _____
Parts (opt) _____

Date closed: 11-24-09

Customer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,655.1 A/F Tach: 6,489.9 Init ATH

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,662.3	6,662.3
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,981.0	3,528.7
B2D34C213	040839	PROPELLER	1,066.2	3,216.1

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Aircraft needs to be washed	1220	1	Aircraft washed	1220	N	11-24	1.0		ATH	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1084587
Tech: PDH
Shop Code: F
Equip Code: A
Opened: 11/25/2009 7:03

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (optl)

Date closed: 11/28/09

Customer: UND Acct#: 205922230 Preliminary Insp SB In Progress Insp MNS

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,657.6 A/F Tach: 6,490.5 Init BS

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,662.9	6,662.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,991.6	3,529.3
B2D34C213	040839	PROPELLER	1,066.8	3,216.7

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Phase 3 Insp	05 20	1	Completed Inspection Items	05 20	N	11/25	3.0		JSC	SB
	Due			dated 11-25-09		N	11/25	5.0		PDH	SB
						N	11/25	3.0		WJS	SB
			2	Compl'd Insp		N	11/28	1.0		MA	MNS
				This aircraft has been inspected in accordance With a(n) Phase 3 Inspection, including, as applicable a routine inspection of engine, propeller, cabin fuselage & empennage And a detailed inspection of control & landing gear Completion Date 11/28/09							
2	SB1197A Control wheel shaft insp due. Rev date 9/1/09	05 50	1	Inspected per SB1197A, found shaft to be inserted proper length	2730	N	11/25	.4		JSC	SB
3	AD 2008-14-07 Fuel injection lines insp due. Rev date 8/14/08	04 00	1	Compl'd IAW AD2008-14-07, no defects noted Next due 6557.6	7310	N	11/25	.3		JSC	SB

INSPECTION SUPPLEMENT AND WORK ORDER Page 2 of 8

Reg#: (N) 289ND Work Order #: 1084587

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
4	SB UND 8 Wing spar	05/20	1	Complied IAW SB UND 8, no	57/00	N	11/25	.2		JS	BB
	chafing insp due			defects noted							
	Rev date 7/15/05										
5	SL 1087 Wing spar	05/20	1	Complied IAW SL1087,	57/00	N	11/25	.2		JS	BB
	aft bolt torque			torque checked good							
	check due Rev date										
	3/30/05										
6	Induction air filter	71/00	1	Removed and replaced	71/00	N	11/25	.2		WJS	BB
	due for replacement			induction air filter		N	11/25	1.1		JS	BB

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289 ND

Work Order #: 1084587

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
7	NLG has excessive up and down play	32 20	1	Added shims between inner strut & trunion & greased nose gear	32 20	N	11/25	.9		RDH	SB
						N	11/25	.3		JSC	SB
8	NLG bottom sizer link is loose	32 20	1	Tightened bottom NLG sizer link bolt	32 20	N	11/25	.3		JSC	SB

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND

Work Order #: 1081587

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
9	NLG shimy dampner Att Fitting	32 20	1	Loosened nut one	32 20	N	11/25	.1		[illegible]	[illegible]
	end ~~fastner~~ bolt is too tight to			castellation and safetied							
	allow movement			with a new cotter pin							
10	L/H towl pin bushing is worn	71 10	1	Removed & Replaced worn	71 10	N	11/25	.2		[illegible]	[illegible]
				bushing							
11	Prop has nicks	61 00	1	Dressed propeller blades	61 00	N	11/25	.5		WJS	[illegible]
						N	11/25	.1		156	[illegible]
12	Wing ding silicone needs	57 00	1	Removed wing ding & applied silicone	57 00	N	11/25	.3		[illegible]	[illegible]
	re applied		2	Reinstalled wing ding	57 00	N	11/25	.1		156	[illegible]

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 284ND

Work Order #: 1084587

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
13	L/H MLG tire is worn	32/40	1	Removed and replaced	32/10	N	11/25	1.5		WJS	
				L/H MLG wheel +		N	11/25	.1		JS	
				tube							
	OLD P/N 606C66-8			New P/N 606C66-8							
	OLD S/N 90510161			New S/N 92387123							
14	L/H MLG Brake linings	32/40	1	Removed and replaced	32/40	N	11/25	.5		WJS	
	worn			brake linings		N	11/25	.1		JS	
15	Control yokes are dirty	27/30	1	cleaned control	27/30	N	11/25	.3		WJS	
				yoke shafts		N	11/25	.1		JS	

INSPECTION SUPPLEMENT AND WORK ORDER

Page 6 of 8

Reg#: (N) 289ND

Work Order #: 1084587

	PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
*	16	L/H MLG drag link is sloppy	32 10	1	Replace truss pivot bracket with serviceable repaired part	32 10	N	11/25	.5		ROH	SB
				2	Rebushed L/H MLG drag arm, need swung	32 10	N	11/25	1.5		156	MA
				3	Swung Gear	32 10	N	11/28	.1		MA	MA
	17	R/H MLG drag link is sloppy	32 10	1	Rebushed R/H MLG drag arm, needs swung	32 10	N	11/25	1.5		156	MA
				2	Swung Gear	32 10	N	11/28	.2		MA	MA

INSPECTION SUPPLEMENT AND WORK ORDER Page 7 of 8

Reg#: (N) 289NP Work Order #: 1084587

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
18	Left and right NLG	32/40	1	Removed and replaced	32/40	N	11/25	.5		WJS	
	wheel bearings have			NLG wheel bearings +		N	11/25	1.1		JSS	
	watermarks			races							
19	RH outer MLG wheel	32/40	1	Removed and replaced	32/40	N	11/25	.5		WJS	
	bearing has watermarks			RH outer wheel bearing +		N	11/25	1.1		JSS	
				race assy							
20	Insp time	0560	1	Time	0560	N	11/25	3.0			
							11/28	.5		MMA	MMA

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND

Work Order #: 1084587

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
21	Nose Gear Actuator Clicking noise when Gear up/down all the way.	32-20	1	Insp & found loose Rivets on Aft Attach Bracket. Removed Rivets & installed New Rivets IAW AC43.13-1B par 4-57	32-20	N	11/28	0.5		[illegible]	[illegible]

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature Morgan R. Stroot
Date 11/28/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1084606
Tech: THM
Shop Code: A
Equip Code: A
Opened: 11/25/2009 12:38

OBTAIN ALL INITIALS BEFORE FILING

R/A 84
Parts (opt) 1

Date closed: 11/29

84

Customer: UND Acct# 205922230 Preliminary Insp _____ In Progress Insp _____

N# N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,657.6 A/F Tach: 8,490.5 Init _____

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,662.9	6,662.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,981.6	3,529.3
B2D34C213	040839	PROPELLER	1,066.8	3,216.7

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Opened in error Please Close THM										

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1084777
Tech: MOA
Shop Code: F
Equip Code: A
Opened: 12/5/2009 15:33

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt!)

Date closed: 12/5/09

Customer: UND Acct#: 205922230 Preliminary Insp MSB In Progress Insp MSB

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,667.9 A/F Tach: 6,497.5 Init MOA

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,669.9	6,669.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	1,988.6	3,536.3
B2D34C213	040839	PROPELLER	1,073.8	3,223.7

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	fuel flow Indicator didn't move on startup or After startup	77 00	1	operated Boost pump No flow till mitre Moved FWD, Started Aircraft fuel flow was normal, Indication is operating Normal	77 00	N	12/5	.3		MOA	MSB
2	winterplate on oil cooler needs to be install	71 70	1	installed winterplate	71 70	N	12/5	.1		MOA	MSB
3	Insp time	05 60	1	Inspected	05 60	N	12-5	.2		MSB	MSB

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.

Authorized Signature [signature]
Date 12-5-09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1084824
Tech: DTL
Shop Code: F
Equip Code: A
Opened: 12/7/2009 19:10

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt!)

Date closed: 12/07/09

Customer: UND Acct#: 205922230 Preliminary Insp In Progress Insp

#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,675.7 A/F Tach: 6,503.5 Init DM

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,675.9	6,675.9
D-360-C1C6	L2718951A	ENGINE (ARROW)	1,994.6	3,542.3
2D34C213	040839	PROPELLER	1,079.8	3,229.7

D	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	Co-pilots lt. rudder pedal pad fell off.	2720	1	Reinstalled co-pilots Lt. rudder pedal pad by zip ties.	2720	N	12/07	.5		DM	
2	Insp. time	05/60	1	time	05/60	W	12/07	.2			

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.

Authorized Signature
Date 12-07-09

INSPECTION SUPPLEMENT AND WORK ORDER

egard School of Aerospace Sci.
versity of North Dakota
and Forks Intl. Airport
rk Andrews Field
and Forks, ND 58202

WKO#: 1085070
Tech: RWS
Shop Code: F
Equip Code: A
Opened: 12/14/2009 21:43

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt'l)
Date closed: 12/15/09

stomer: UND Acct#: 205922230 Preliminary Insp In Progress Insp

: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,718.9 A/F Tach: 6,534.8 Init RWS

t#	Serial#	Description	TSO	Total Time
28R-201	2844039	AIRFRAME (ARROW)	6,707.2	6,707.2
360-C1C6	L2718951A	ENGINE (ARROW)	2,025.9	3,573.6
D34C213	040839	PROPELLER	1,111.1	3,261.0

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
Excessive oil found on lower Engine area nose gear assy and nose gear doors	79 00	1	Inspected & cleaned engine, Ran A/C, leak Check good Could not duplicate problem.	79 00	N	12/15	1.5		CK	
upper cowl fwd R/H latch is broken	71 10	1	Removed & Replaced latch	71 10	N	12/15	.7		CK	
Inspection	S60	1	Time	S60	N	12/15	3			

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 and is airworthy and approved for return to service.
Certified Repair Station 0G8R092N

Authorized Signature
Date 12/15/09

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1085071
Tech: CME
Shop Code: A
Equip Code: A
Opened: 12/14/2009 22:26

OBTAIN ALL INITIALS BEFORE FILING

R/A 89
Parts (opti)
Date closed: 12-14-09

Customer: UND Acct#: 205922230 Preliminary Insp [illegible] In Progress Insp [illegible]

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,718.9 A/F Tach: 6,534.8 Init [illegible]

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,707.2	6,707.2
IO-360-C1C6	L2718951A	ENGINE (ARROW)	2,025.9	3,573.6
B2D34C213	040839	PROPELLER	1,111.1	3,261.0

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Loaner KL-102A Ser# 6888 needs to be removed and returned to Duncan	24 00	1	Removed loaner DL and shipped to Duncan Aviation. Installed P/N KL-102A Ser# ~~48404~~ 49409 Ops Check good	34 00	N	12/14	1.5		CME	[illegible]

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 and is airworthy and approved for return to service.
Certified Repair Station 0G5R092N

Authorized Signature [signature]
Date 12/14/09

...tion ...TATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: UJB6A0001001001

...me and Address: ...viation/Lincoln Airport/Lincoln, NE 68524 JGVR194F	5. Work Order/Contract/Invoice Number: UJB6A

Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
DIRECTIONAL GYRO	060-0015-00	N/A	1	49409	OVER-HAULED

Remarks:

Customer: UNIVERSITY OF NORTH DAKOTA

Discrepancy: Heading flag shown continuously, heading inaccurate.

Preliminary Findings: Bench checked unit, opened, and evaluated. Could not duplicate heading flag showing continuously. Environmentally tested and still could not duplicate discrepancy. However, the gimbal bearings are seizing and the rotor bearings are dry. Unit will need an overhaul.

Corrective Action: Overhauled unit and replaced defective parts. Cleaned, aligned, and calibrated unit. Function tested unit per HONEYWELL KG 102A Directional Gyro Maintenance Manual, Revision 7, dated 03/01/2002.

Duncan Aviation certifies that the work specified in Blocks 12 and 13 was performed I.A.W. EASA Implementation Rule part 145 approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA approval number 145.4392.

All EASA/FAA Airworthiness Directives are the responsibility of the installer.

No current U.S. Airworthiness Directives apply.

Technician: STEVE ALDER

This document constitutes a signed copy of the work order

Approval for return to service

See attached parts list

14. Certifies the items identified above were manufactured in confirmity to:		19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulations specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.			
15. Authorized Signature:	16. Approval Authorization No.:	20. Authorized Signature: DUNCAN QI 554	21. Approval/Certificate No.: JGVR194F
17. Name (Type or Printed):	18. Date (m/d/y):	22. Name (Type or Printed): BRIAN K. PIERCE	23. Date (m/d/y): Dec 04, 2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in blocks 14 and 19 do not constitute installations certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01) * Installer must cross-check eligibility with applicable technical data. NSN-0052-00-012-9005

3. Form Tracking Number:

UJB6A0001001001

Parts List

...mber	Part Description	Serial Number	Quantity
...R-3SD512T1A7P36LY676U	BRG (147-05173-0000),TSO		2
...-6632ZZRA7P25LY387P	BEARING,TSO		4

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1085142
Tech: CSG
Shop Code: F
Equip Code: A
Opened: 12/17/2009 6:59

OBTAIN ALL INITIALS BEFORE FILING

R/A 89
Parts (optl) 89

Date closed: 12-17-09

Customer: UND Acct#: 205922230 Preliminary Insp ____ In Progress Insp ____

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,730.7 A/F Tach: 6,543.4 Init 156

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,715.8	6,715.8
IO-360-C1C6	L2718951A	ENGINE (ARROW)	2,034.5	3,582.2
B2D34C213	040839	PROPELLER	1,119.7	3,269.6

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	DT	Tech	Insp
1	When operating handle on LH seat, it does not go up or down	25 10	1	labed seat, ops checked good Clark Gebhard ASPZ769406 Clark Gebhard	25 10	N	12/17	.7		156	

INSPECTION SUPPLEMENT AND WORK ORDER

gard School of Aerospace Sci.
ersity of North Dakota
nd Forks Intl. Airport
k Andrews Field
nd Forks, ND 58202

WKO#: 1085247
Tech: FLR
Shop Code: W
Equip Code: A
Opened: 12/22/2009 11:59

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt) 1

Date closed: 12-22-09

tomer: UND Acct#: 205922230 Preliminary Insp _____ In Progress Insp _____

N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,743.6 A/F Tach: 6,553.5 Init _____

#	Serial#	Description	TSO	Total Time
28R-201	2844039	AIRFRAME (ARROW)	6,725.9	6,725.9
360-C1C6	L2718951A	ENGINE (ARROW)	2,044.6	3,592.3
234C213	040839	PROPELLER	1,129.8	3,279.7

Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
Aircraft needs to be washed.	1220	1.	washed Aircraft.	1220	N	12-22	1.4		FCR	

INSPECTION SUPPLEMENT AND WORK ORDER

Odegard School of Aerospace Sci.
University of North Dakota
Grand Forks Intl. Airport
Mark Andrews Field
Grand Forks, ND 58202

WKO#: 1085265
Tech: DJG
Shop Code: F
Equip Code: A
Opened: 12/22/2009 14:55

OBTAIN ALL INITIALS BEFORE FILING

R/A
Parts (opt'l)

Date closed: 12-22-09

Customer: UND Acct#: 205922230 Preliminary Insp MSB In Progress Insp MSB

N#: N289ND AcftType: ARRO Model: PA28R-201 Bill Meter: 8,743.6 A/F Tach: 6,553.5 Init

Part#	Serial#	Description	TSO	Total Time
PA28R-201	2844039	AIRFRAME (ARROW)	6,725.9	6,725.9
IO-360-C1C6	L2718951A	ENGINE (ARROW)	2,044.6	3,592.3
B2D34C213	040839	PROPELLER	1,129.8	3,279.7

PD	Problem / Discrepancy (PD)	ATA	CA	Corrective Action (CA)	ATA	ACC	Date	Hrs	OT	Tech	Insp
1	Phase 4-INSP	0520	1		0520	N	12/22	6.0		DJG	MSB
	DUE					N	12/22	5.5		CM	MSB
				This aircraft has been inspected in accordance With a(n) Phase 4 Inspection, including, as applicable a routine inspection of Cabin, Fuselage Empennage, wings and landing gear And a detailed inspection of Engine and propeller. Completion Date 12-22-09							
2	AD 2008-14-07	0520	1	Complied with AD	N/A	N	12/22	.3		DJG	MSB
	Fuel Injection			2008-14-07 NO							
	Lines INSP DUE			Defects noted							
	Effective Date			Next DUE 6617.6							
	8-14-08										

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289 ND

Work Order #: 1085265

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
3	SB UND8 wing spar	0550	1	Complied with SB	0550	N	12/22	.3		DJG	MSB
	chafing DUE			UND8 no defects							
				noted next DUE							
				6607.6							
4	UND SB11 MLG	0550	1	Complied with	0550	N	12/22	.3		DJG	MSB
	trunion bolts DUE			UNDSB11 no							
				defects noted							
				next DUE 6727.6							
5	#4 ~~Top~~ CM Spark Plugs And	7420	1	Installed new	7420	N	12/22	.2		CJM	MSB
	~~bad~~ WJS 2 #2 + ~~#4~~ CM all			spark plugs on cyl							
	fouled out			#4 and lower #2							
				ops ck — Good							

INSPECTION SUPPLEMENT AND WORK ORDER Page 3 of 5

Reg#: (N) 289WD Work Order #: 1085265

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
6	Co-pilots shoulder	2510	1	Removed and replaced	2510	N	12/22	.3		WJS	MGB
	HARNESS frayed			Co pilots shoulder		N	12/22	.1		WJS	MGB
				harness							
7	pilots LAP Belt	2510	1	Removed and replaced	2510	N	12/22	0.5		BLE	MGB
	FRAYed			pilots lap belt							
8	L/H AND R/H MAGS	7410	1	RETIMED L/H AND	7410	N	12/22		.5	CM	MGB
	OUT of time to ENGINE			R/H MAGS to ENGINE							

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 299ND

Work Order #: 1085265

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
9	Nick in prop	6100	1	Blended prop	6100	N	12/22	0.5		BLC	MSB
10	~~Lower cowl~~ cowl	7110	1	Installed new	7110	N	12/22	.3		CJM	MSB
	pin Bushings worn			Lower cowl pin							
				Bushings							
11	Lower muffler	7810	1	Installed new	7810	N	12/22	1.0		CJM	MSB
	Shroud has hole			Lower Muffler		N	12/22	.5		DJC	MSB
	than bottom			Shroud							

INSPECTION SUPPLEMENT AND WORK ORDER

Reg#: (N) 289ND

Work Order #: 1085265

PD	Problem Description (PD)	GAMA	CA	Corrective Action (CA)	GAMA	ACC	Date	Hrs	OT	Mech	Insp
12	INSpection Time	0560	1	Inspected	0560	N	12-22	1.8		MSB	MSB

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 and is airworthy and approved for return to service.
Certified Repair Station OG5R092N

Authorized Signature [signature]
Date 12-22-09

1. ...ial Aviation ...ountry: ...TED STATES	2. **AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number. **W294474-422035-1**
...tion Name and Address. **Pacific Scientific P94R580N** **AVIATION SERVICES COMPANY** **11700 NW 102nd ROAD** **SUITE 6** **MIAMI, FL 33178**		5. Work Order, Contract or Invoice Number: 1029235

6. Item	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	REEL ASSEMBLY	1107447-13	N/A	1	N/A	REPAIRED

13. REMARKS

Unit was repaired IAW manufacturers approved data.

1107447 Rev: N Date: 7/2/2001

Unit comply with SB A25-1124A.

Pacific Scientific certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and with respect to that work the aircraft component is considered ready for release to service under EASA Part-145 Approval Number: EASA.145.5406.

14. Certifies the items identified above were manufactured in conformity to:	19 [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 13
[ ] Approved design data and are in a condition for safe operation. [ ] Non-approved design data specified in Block 13	Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval Authorization No:	20. Authorized Signature:	21. Approval/Certifcate No:
			P94R580N
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed): John Grego	23. Date (m/d/y): Sep/29/2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statement in Blocks 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

ientific
RD #6
8

Tear Down/Inspection

Work Order #: W294474

Date Printed: 9/29/2009

Time: 7:13:17 AM

Page: 1

ip To:
NIVERSITY OF NORTH DAKOTA
CENTER FOR AEROSPACE SCIENCES
2798 AIRPORT DRIVE
GRAND FORKS,ND 58203 USA

Station: MIAMI

Technical Data used:
1107447 Rev: N Date: 7/2/2001

PN: 1107447-13

Descr: REEL ASSEMBLY

PO No.: 1029235

Qty: 1

Serial Numbers:

Notes: Unit comply with SB A25-1124A.

Symptoms:

Customer requests inspect and repair as necessary
FRAYED.

Faults:

Parts were found to be corroded, worn or damaged.

Unit(s) webbing frayed beyond acceptable limits.

Corrective Actions:

Unit is to be repaired IAW Mfr technical data.

PN	*Description*	*Qty Used*
0107348-01	WASHER	1
0905100-07	VELCO TAUPE	1
0922100-46	(G) SOCKET, DOT FAST	1
1106228-1	SPRING CUP ASSY	1
1106323-07	SEAL	2
1106340-01	PIN, SHAFT RETAI	1
1106344-01	FRAME ASSEMBLY	1
1106410-09	INERTIAL MECH ASSY	1
1107253-01	CLIP, STRAP	1
BH3AAV	WEBBING	2

Pacific Scientific P94R580N

11700 NW 102nd Road
Suite 6
Miami, Fl 33178

Work Order
W294474

Part Number: 1107447-13 **Qty:** 1 **Description:** REEL ASSEMBLY

Customer: UNIVERSITY OF NORTH DAKOTA

SERIAL #:

Customer P.O.: 1029235

Technical Data: DATA TYPE / NUMBER / REVISION / REV DATE
1107447 Rev: N Date: 7/2/2001

Evaluation

Customers remark:

Customer requests inspect and repair as necessary

FRAYED.

Results from evaluation:

Parts were found to be corroded, worn or damaged.

Unit(s) webbing frayed beyond acceptable limits.

Work to be performed:

Unit is to be repaired IAW Mfr technical data.

Initial Evaluation

Work Instructions:

Verify Technical Data

Verify the revision level and date of drawing 1107447 Revision= N Revision Date= 7-2-01

The following Service Bulletins, Engineering Orders, are associated with part number. Verify information below:

SB: A25-1124A EO/ESO: none

Verified by: PacSci 19 Miami Stamp 9/15/09 mo da yr

Initial inspection

Initial Inspection: The technician shall inspect the unit for damage, unapproved parts and any non-conforming conditions. Verify the customer has correctly identified the unit. Record the following information:

Unit is correctly identified: (YES) NO

1) Webbing condition: Good_____ needs replacing ✓ Existing Color. Black

Remarks none

PacSci 19 Miami

Initial Inspection Completed by: ____ Stamp 9/17/09 mo da yr

Disassemble and evaluate

Cut the webbing from the existing hardware. Verify that the existing hardware is serviceable. Inspect for hiddend damaged

Remarks none

Work perfomed by: PacSci 41 Miami Stamp 9/28/09 mo da yr PAC SCI 27 MIAMI PAC SCI 45 MIAMI

Work Order
W294474

Page: 2

acific Scientific P94R580N

11700 NW 102nd Road
Suite 6
Miami, Fl 33178

eleased to Shop

Work Instructions:

Assemble and Sew to drawing requirements

Assemble and sew the webbing in accordance with the manufacturer's drawings.

Re-assemble the reel and strap. Adjust for proper operation.

Work performed by: [PacSci 41 Miami] Stamp 9,28,09 mo da yr [PAC SCI 27 MIAMI] [PAC SCI 45 MIAMI]

Calibrate reel

Test the reel in accordance with TD 545.

Perform retraction force test. Pass ✓ Fail ____

Must lock = .75 g No lock = .37 g

Unit calibrated by: [PacSci 41 Miami] Stamp 9,28,09 mo da yr [PAC SCI 27 MIAMI] [PAC SCI 45 MIAMI] ✓

Final assembly

Complete the assembly in accordance with manfucturer's drawings and/or customer's Engineering orders.

SB complied with: ✓ yes ___ no C/W A25-1124A

EO/ESO complied with: ___ yes ___ no ✓

Work performed by: [PacSci 41 Miami] Stamp 9,28,09 mo da yr [PAC SCI 27 MIAMI] [PAC SCI 45 MIAMI]

Cell leader acceptance

Work was performed in accordance with Manufacturer's specifications and/or customer engineering orders.

Verified by: [PacSci 19 Miami] Stamp 9,28,09 mo da yr

INSPECT

Work Instructions:

Final Inspection

Inspected the unit IAW manufacturer's drawings, and/or customer's engineering order.

This certifies that the work specified in this work order was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part is approved for return to service.

Return to service by: [signature] Signature 9,29,2009 mo da yr [PAC SCI 8 MIAMI] Stamp

id ROAD
3178
477-4711, Fax: 305-477-9799

Invoice #: M317675
Date: 9/29/2009
Cust. PO#: 1029235
ORIGINAL
Page:1

Sold To:
UNIVERSITY OF NORTH DAKOTA
UND AEROSPACE FISCAL AFFAIRS
% PEGGY DOHN ODEGARD HALL RM 200
3980 CAMPUS ROAD STOP 9007
GRAND FORKS, ND 58202-9007
USA
Ph: 701-777-7917 Fax: 701-777-7929

Ship To:
UNIVERSITY OF NORTH DAKOTA
CENTER FOR AEROSPACE SCIENCES
2798 AIRPORT DRIVE
GRAND FORKS, ND 58203
USA
SITE_CODE ND

Sales Order: S277908
Customer #: 100933
Terms: N30
Order Date: 9/29/2009
Ship Date: 9/29/2009

Shipment #: 1
FOB: COLLECT
Ship Via: UPS GROUND
Account No. V60390
AWB:

IMPORTANT: If these commodities, technology, or software are to be EXPORTED from the United States, compliance with the Export Administration Regulations is required. Diversion contrary to U.S. law is prohibited.

For installation eligibility goto www.pacscimiami.com/pmadb

Item	Part Number	Description	Shipped	BackOr	CD	Unit Price	Ext Price
1	1107447-13 NON-PMA	REEL ASSEMBLY	1	0	RP	EA	

CERTIFICATE OF CONFORMANCE

This certifies that the unit(s) shipped herewith have been subjected to all necessary tests, and test data showing conformance with the applicable specification, as well as test reports covering the material of these parts showing conformance with the applicable requirements, are enclosed or, are on file at this facility or at the manufacturer's plant.

Authorized Signature: Nolan Klein Date: 9/29/2009
Quality Assurance

12:54:29 PM

1. Approving National Aviation Authority/Country:	2.	3. Form
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	911

4. Organization Name and Address	5. Work Order/Contract/Invoice Number:
DAVIS RESTRAINT SYSTEMS INC. 820 SOUTH PALM AVE. SUITE 15, ALHAMBRA, CA 91803-1529 USA	UND01-0000007942

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	SEAT BELT	FDC6400-120-5	N/A	2	N/A	REPAIR

13. Remarks :

REPAIRED IN ACCORDANCE WITH THE APPROVED DESIGN DATA FROM DAVIS AIRCRAFT PRODUCTS, INC. (OEM) AND WITH CMM DS2061 REV. B 02/07. FULL DETAILS OF WORK CARRIED OUT PER WORK ORDER NO. 911684.

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.

☐ Non-approved design data specified in Block 13.

15. Authorized Signature:

16. Approval/Authorization No.:

17. Name (Typed or Printed):

18. Date (m/d/y):

19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

20. Authorized Signature:

21. Approval/Certificate No.: GK3R530L

22. Name (Typed or Printed): Richard F. Pfirrman

23. Date (m d y): Nov 19 2009

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

UNDAEROSPACE
UNIVERSITY OF NORTH DAKOTA

PROGRESSIVE INSPECTION GUIDE

PIPER
PA28-161
PA28R-201

INSPECTION NO. 2 or NO. 4

DETAILED INSPECTION ITEMS---ENGINE AND PROPELLER

ROUTINE INSPECTION ITEMS---CABIN, FUSELAGE, EMPENNAGE, WINGS AND LANDING GEAR

N 289ND W/O# 105265 TACH 6,555

PRE RUN-UP INSPECTION ***INSP.***

1. *Inspect* for excessive fuel or oil leakage. If required, thoroughly wash aircraft prior to run-up. CM
2. *Aircraft Documents* - check FAA approved Owners Manual for completeness and current revisions. Check airworthiness certificate and registration certificate. CM
3. *SB's and AD's* - check status of current Service Bulletins and Airworthiness Directives. CM
4. *Time Life Items* - check status of Time Life Items. CM
5. *Review Maintenance History* since last inspection. CM

PRE INSPECTION RUN-UP

1. Brakes CM
2. Starter CM
3. Engine Instr. CM
4. Alt. Output CM
5. Avionics Oper. CM
6. Ammeter CM
7. Magneto-175 Max, 50 Diff at 2000 RPM Max 10 sec. each mag. CM
8. Carb Heat Check/Alternate Air CM
9. Propeller Check at 1500 RPM, 500 RPM decrease (201 only) CM
10. Power Check (Max 2 min. or 475° F with cowling removed) CM
11. Heat and Vent Systems CM
12. Fuel Gauges CM
13. Boost Pump CM
14. Fuel Selector CM
15. All Lights CM
16. ~~Elec.~~ Trim Oper. CM
17. Flaps CM
18. Pitot Heat CM
19. Instruments CM
20. Standby Vacuum System CM
21. Idle RPM, 550-650 RPM CM
22. Idle cut-off CM
23. Magneto Safety Check CM

DETAILED INSPECTION ITEMS---ENGINE AND PROPELLER

ENGINE ***INSP.***

1. *Cowling* – remove cowling, check for condition, damage and wear. Clean interior surfaces.

2. *Compression* - perform differential compression test.

#1	#2	#3	#4
70	72	70	70
80	80	80	80

3. *Intake Filter* - check condition, replace if 50% covered by contamination.

4. *Fuel Injector/Carburetor* - Inspect hoses and lines for condition, leakage and security. Inspect body for condition and security. **Phase 4 only: inspect and clean inlet screen. PA28-161 ONLY Drain carburetor bowl.**

5. *Boost Pump* - inspect for security, condition and operation. Clean and inspect screen. (PA28-161 only)

6. *Alternate Air Door/Carb Heat* - check door and hinge for condition, security and operation.

7. *Injector Nozzles (201 only)* - check condition and security of fuel lines, fittings and any evidence of leakage.

8. *Primer Nozzles (Cadet & Warrior)* Check condition and security of primer lines and fittings. Remove primer nozzles, clean, inspect, reinstall and check for leakage.

9. *Spark Plugs* – clean, regap and test, or replace as necessary.

10. *Magnetos* - check condition and security of magneto, attaching nuts, cover screws, wiring and vent caps. Check external timing.

11. *Ignition Harness* - check routing, condition and security.

12. *Oil Filter and Sump Screen* – Drain oil. **Remove and cut open filter,** Inspect element for contamination. Install new filter **and safety**. Remove, inspect, clean oil sump screen, reinstall **and safety**.

13. *Oil* - Fill with proper grade oil.

14. *Engine Mount* - inspect for condition, cracks, corrosion or damage. Inspect rubber cushions, mount bolts and nuts for condition and security. Check grounding straps for condition and security.

ENGINE

INSP.

15. *Firewall* - inspect for wrinkles, damage or cracks. Check all electrical and control access holes for proper sealing.

16. *Stand by Vacuum Pump* - check security of hoses, pump and wiring. Check for proper operation.

17. *Oil Cooler* - inspect for leakage, deformed or cracked cooling fins and cracked mounting flanges.

18. *Hose and Ducts* - inspect all fuel, oil and air hose and ducting for leakage, deterioration and damage. Check fittings for security.

19. *Alternator* - check security of case, electrical connections and condenser. Check condition and tension of belt. Check electrical wiring for damage, routing, clamping and connections.

20. *Starter* - check external condition **and security**, gear teeth for wear. Check electrical wiring for damage and routing. Lube starter drive with Silicone.

21. *Propeller Governor (201 only)* - check for leaks and control arm for security.

22. *Cylinders* - inspect for leaks, broken cooling fins and loose or missing base nuts.

23. *Accessory Section* - inspect all accessories for condition, security and oil leaks. Oil temp probe for security and wiring for damage, routing and connection.

24. *Crankcase and Oil Sump* - inspect for cracks, oil leaks, condition and security of sump bolts and crankcase half bolts.

25. *Baffles* - inspect all baffling for proper placement, cracks and excessive wear.

26. *Exhaust System* - inspect for cracks, leakage, loose or missing nuts and clamps. Remove heat exchanger shroud and inspect for cracks, deformation, corrosion and signs of exhaust leakage. Inspect internal baffles for deformation or looseness. Check EGT probe, if installed, for security and wiring for damage, routing and connections.

ENGINE

INSP.

27. *Controls* - check all engine and propeller controls for condition, security, proper operation and travel.

28. *Fuel Screen and Sump* - inspect and clean fuel screen. NOTE: If excessive contamination found, inspect and clean fuel injector/carburetor inlet screen.

29. *Thoroughly wash* – engine and firewall. Reinstall cowling.

PROPELLER

INSP.

1. *Spinner and Bulkhead* - remove spinner, wash and inspect for cracks and fractures.

2. *Propeller Mounting Bolts* - inspect mounting bolts and safety wire for signs of looseness. Retorque mounting bolts as required, and re-safety.

3. *Propeller Hub (201 only)* - check for cracks, excessively leaking seals and general condition. Check security and movement in hub of blades.

4. *Propeller Blades* - inspect for cracks, dents, nicks, scratches, erosion, corrosion or other damage.

5. *Spinner* - reinstall spinner, check for proper installation of spacers and screws.

ROUTINE INSPECTION ITEMS---CABIN, FUSELAGE, EMPENNAGE, WINGS AND LANDING GEAR

CABIN

INSP.

1. *Instrument, Cabin, Avionics Lights* - check operation, condition and security of attachment.

2. *Switches, Circuit Breakers* - check operation of switches. Check condition and marking of circuit breakers.

3. *Instruments* - check general condition and markings for legibility.

4. *Engine and Cabin Controls* - check freedom of movement and friction locks for proper operation.

	INSP.
Wing Flap Control - check operation through full travel and observe flaps for proper position and operation.	
6. *Flight Controls, Trim Controls and Trim Indicator* - check freedom of movement and proper operation through full travel with and without flaps extended. Check electric trim controls (if installed) for operation.	
7. *Fuel Selector Valve* - check control for detent in each position, security of attachment, and for proper placarding.	
8. *Seats, Seat Belts, and Shoulder Harnesses* - check general condition and security. Check operation of seat stops and adjustment mechanism. Inspect belts for condition and security of fasteners.	
9. *Brakes* - test toe brakes and parking brake for proper operation.	
10. *Windows, Windshield, Doors and Seals* - inspect general condition. Check latches, hinges, and seals for condition operation, and security of attachment.	
11. *Thoroughly clean* - cabin interior, windshield, and windows.	
12. *Fire Extinguisher* - inspect fire extinguisher and attach bracket for security and condition. Inspect nozzle for obstructions and ensure safety seal is intact.	

FUSELAGE	***INSP.***
1. *Fuselage Surface* - inspect for skin damage, loose rivets, condition of paint, and check pitot-static ports and drain holes for obstruction. Inspect covers and fairings for security. Inspect surfaces for hydraulic leaks.	
2. *Battery* - remove, service as per manufacturers' instructions. Check box for obvious corrosion and vents for obstruction. Reinstall battery.	
3. *Hydraulic Power Pack (201 only)* - check fluid level. Check for obvious leakage.	

EMPENNAGE

INSP.

1. *Vertical Stabilizer* - inspect externally for skin damage, condition of paint and condition of fairings and tip. _____

2. *Rudder* - check condition, security and operation. _____

3. *Stabilator and Tailcone* - inspect external skin for damage, condition of paint and condition of tips. _____

4. *Trim Tab* - check condition, security and operation. Check condition of tab horn, control rod attachment, and hinge. _____

WINGS

INSP.

1. *Wing Surface and Tips* - inspect for skin damage, condition of paint, and security of inspection covers, fairings and tips. Check condition and security of navigation lights. _____

2. *Ailerons* - check hinges, pins, attach points, brackets, balance weights and push-pull rods for condition and security. _____

3. *Flaps* - check skin for condition and security. Check hinge attach points, bearings, bolts and push rods for condition and security. _____

4. *Fuel Vents, Air Inlets, Pitot Tube, Stall Warning Vane* - check for condition and obstructions. Check pitot heater operation if installed. _____

5. *Fuel Tanks* - check for evidence of leakage and condition of fuels caps and placards. _____

LANDING GEAR

INSP.

1. *Landing Gear Strut Assy (161 only)* - check upper and lower spar attach area for deformation and looseness. Check for proper strut extensions. _____

2. *Struts and Doors (201 only)* - check condition and security. Determine that all clevis retaining pins are in place **and secured with cotter keys**. _____

...ING GEAR

	INSP.
3. *Wheels, Tires and Brakes* - check condition, tires for wear and inflation, and brakes for leakage and lining wear.	DV
4. *Nose Gear* - check shimmy dampener and nose wheel steering for condition.	DV

POST INSPECTION

	INSP.
1. *Lubrication and Servicing* - insure all required items have been lubricated and serviced per service manual lubrication and servicing charts.	DVG

POST INSPECTION RUN-UP

1. Brakes CM
2. Starter CM
3. Engine Instr. CM
4. Alt. Output CM
5. Avionics Oper. CM
6. Ammeter CM
7. Magneto-175 Max, 50 Diff at 2000 RPM Max 10 sec. each mag. CM
8. Carb Heat Check/Alternate Air CM
9. Propeller Check at 1500 RPM, 500 RPM decrease. (201 only) CM
10. Power Check (Max 2 min. or 475°F with cowling removed) CM
11. Heat and Vent System CM
12. Fuel Gauges CM
13. Boost Pump CM
14. Fuel Selector CM
15. All Lights CM
16. ~~Elec.~~ Trim Oper. CM
17. Flaps CM
18. Pitot Heat CM
19. Instruments CM
20. Standby Vacuum System CM
21. Idle RPM, 550-650 RPM CM
22. Idle cut-off CM
23. Magneto Safety Check CM

POST RUN-UP INSPECTION

	INSP.	O.A.
1. Engine Compartment - check for oil and fuel leaks. Reinstall cowling.	CM	MSB
2. Ensure all access covers, doors, fairings and other items removed for this inspection are reinstalled properly.	DVG	MSB
3. Aircraft Documents - check for completion of Service Letters, Airworthiness Directives, log book entries.	DVG	MSB

INSPECTION NO. 2 OR NO. 4 COMPLETED DATE: 12-22-09