West Star Aviation, Inc. - GJT

Work Order Detail

790 Heritage Way Grand Junction, CO 81506

United States

Telephone: 970-243-7500

May 10, 2013

Fax: 970-242-5178

Work Order: 29019

Title: Evergreen Int'l Aviation

Department: Avionics Install

Registration # N22MS

Serial #: 35A209

Repair Station: WTXR173J

Open

Customer: Evergreen Int'l Aviation

Contact Name: Ken Martz

Status:

Address:

Accounting

Account Code EVERHC

3850 NE Three Mile Lane

Target Date:

P.O. #: Created: 4/22/2013

McMinnville, OR 97128

Invoice #: Date Closed: Posted:

Job #:

Parts/Consumables

Any parts and/or consumables necessary to accomplish the workscope are not included in the pr above, unless specifically stated otherwise.

De-Fuel

Aircraft requiring de-fueling will be assessed a charge of \$0.22 per gallon.

Aircraft Down Time

The estimated down time for the work quoted above is ten (10) business days, depending on wo scope elected and other work accomplished in conjunction with the inspection or installation.

Payment Terms

25% of the avionics price is due at contract signing and 25% of the avionics price is due at aircra input. The balance of the contract plus any additional charges and change order requests are due aircraft delivery.

2013 Shop Rates

Lear Maintenance, Completions - Paint & Interior, Avionics Install & Repair Standard - \$102.00, Overtime/Premium - \$153.00

Avionics Disclaimer

Pricing for the work quoted above is based on the assumption that there is adequate space and the the existing electrical/avionics interfaces and electrical power will accommodate the new installa and/or modification. Pricing also assumes that the aircraft wiring prints match the current aircra configuration and that all aircraft documentation is current. In the event one or more of these assumptions are wrong an estimate of the additional cost will be submitted to the customer for approval.

Part number(s) stated are subject to change pending design review. All equipment and furnishin removed will remain the property of West Star Aviation, Inc.

Item:

Preliminary

Part #: 35A

Serial #: 35A209

Squawk:

Discrepancy: Comply with Preliminary Inspection-

Printed: 5/10/2013 8:38:40AM

West Star Aviation, Inc. - GJT

Grand Junction, CO 81506

May 10, 2013

United States				Telephone: 970-24	3-7300	Fax: 970-242-5178
Work Order:	29019	Title: Evergreen	Int'l Aviation		Departmen	t: Avionics Install
Registration#	# N22MS	Seri	ıl#: 35A209		Repair Statio	on: WTXR173J
Item: 1	Preliminary		Part #: 35A		Serial #:	354209
rtein.	Resolution:	Complied with Pro		ection IAW the require		
	resolution	complica with the	emmay map	rection in two the require	inents of 1401 K	143.211(c)(II).
		Aircraft hours= 15 Aircraft landings= Engine #1 hours= Engine #1 cycles= Engine #2 hours= Engine #2 cycles= Engine #1 S/N:	9490			
		Engine #2 S/N:				
	Signed Off:	4/22/2013	By: Scott Si	mith		
	Completed:		By:			
Item: 2	Avionics Install		Part #: 35A		Serial #: 3	35A209
Squawk:	1 Discrepancy:	Dual Reconditions	ed UNS-1E FN	AS Systems		
	Resolution:			N 1013-41-011 S/N 82 Vest Star Aviation Dwg		t. 6.50 lbs each
		LINIO LINIO LA C.	DD: 2017 40	211021106 1021		
		10706 S/N 16291 Performed post i	and S/N 1629	-211 S/N 196 and S/N 1 22 Wt. 0.5 lbs. SSDTU l actional check IAW UN	P/N 1408-00-2 S/	N 2312
	Signed Off:	10706 S/N 16291 Performed post i good on ground.	and S/N 1629	22 Wt. 0.5 lbs. SSDTU I	P/N 1408-00-2 S/ S-1E Installation N	N 2312 Manual. System checks
	Signed Off:	Performed post i good on ground. 5/8/2013	and S/N 1629 Installation fun By: Steve M	22 Wt. 0.5 lbs. SSDTU l ectional check IAW UN forris	P/N 1408-00-2 S/	N 2312 Manual. System checks
	Inspected:	Performed post i good on ground. 5/8/2013 5/8/2013	and S/N 1629 Installation fun By: Steve M By: Scott St	22 Wt. 0.5 lbs. SSDTU loctional check IAW UN forris nith	P/N 1408-00-2 S/S-1E Installation N	N 2312 Manual. System checks
	_	Performed post i good on ground. 5/8/2013 5/8/2013	and S/N 1629 Installation fun By: Steve M	22 Wt. 0.5 lbs. SSDTU loctional check IAW UN forris nith	P/N 1408-00-2 S/ S-1E Installation N	N 2312 Manual. System checks
Step: 2.1.1	Inspected: Double Inspected: Completed:	Performed post i good on ground. 5/8/2013 5/8/2013	and S/N 1629 Installation fun By: Steve M By: Scott Sr By: Craig Sr By:	22 Wt. 0.5 lbs. SSDTU loctional check IAW UN forris nith	P/N 1408-00-2 S/S-1E Installation N	N 2312 Manual. System checks Manual. System checks
Step: 2.1.1	Inspected: Double Inspected: Completed: Step Discrepa	Performed post i good on ground. 5/8/2013 5/8/2013 5/8/2013 ancy: Fabricated a REF: WS802 Fabricated a was made usi mounted to the installed IAV match the pec	and S/N 1629 Installation fun By: Steve M By: Scott Sr By: Craig Sr By: closeout for closeout for th ng 0.063 2024 ne pedestal us V AC43. All p	22 Wt. 0.5 lbs. SSDTU ctional check IAW UN forris mith tout	P/N 1408-00-2 S/S-1E Installation M to the back of the pedestal. The extrusion. The clause of the nutplates. All fas	Manual. System checks
Step: 2.1.1	Inspected: Double Inspected: Completed: Step Discrepa	Performed post i good on ground. 5/8/2013 5/8/2013 5/8/2013 5/8/2013 nncy: Fabricated a REF: WS802 Fabricated a was made usi mounted to the installed IAV match the pection: al.	and S/N 1629 Installation fun By: Steve M By: Scott Sr By: Craig St By: closeout for closeout for th ng 0.063 2024 ne pedestal us V AC43. All pli	of the SSDTU to attach the SSDTU on the back of alclad and 0.050 2024 ting (8) 8-32 screws & warts were chemicaly trees.	P/N 1408-00-2 S/S-1E Installation No. 100 S/S-1E Installat	Manual. System checks and the
Step: 2.1.1	Inspected: Double Inspected: Completed: Step Discrepa	Performed post i good on ground. 5/8/2013 5/8/2013 5/8/2013 5/8/2013 Anney: Fabricated a REF: WS802 Fabricated a was made usi mounted to the installed IAV match the pection: al. 05/06/2013	and S/N 1629 Installation fun By: Steve M By: Scott Sr By: Craig Sr By: closeout for the ng 0.063 2024 ne pedestal us V AC43. All p li By: Don Jo	of the SSDTU to attach the SSDTU on the back of the state of t	P/N 1408-00-2 S/S-1E Installation Means of the back of the of the pedestal. The extrusion. The claust part of the part of the part of the part of the pedestal of the pedestal. All fast of the primered and the p	Manual. System checks manual System checks
	Inspected: Double Inspected: Completed: Step Discrepa Step Resolu Signed Off: Inspected:	Performed post i good on ground. 5/8/2013 5/8/2013 5/8/2013 5/8/2013 Ancy: Fabricated a REF: WS802 Fabricated a was made usi mounted to the installed IAV match the pection: al. 05/06/2013 05/08/2013	and S/N 1629 Installation fun By: Steve M By: Scott Sr By: Craig Sr By: closeout for the selection of the selection of the pedestal us W AC43. All plication of the selection of the selection of the selection of the pedestal us W AC43. All plication of the selection of the	of Wt. 0.5 lbs. SSDTU loctional check IAW UN dorris mith tout the SSDTU to attach as SSDTU on the back of alclad and 0.050 2024 ing (8) 8-32 screws & parts were chemically tresponsion.	P/N 1408-00-2 S/S-1E Installation M to the back of the of the pedestal. The extrusion. The cleanutplates. All fastated, primered and	Manual. System checks
Step: 2.1.1 Step: 2.1.2	Inspected: Double Inspected: Completed: Step Discrepa Step Resolu Signed Off: Inspected: Step Discrepa	Performed post i good on ground. 5/8/2013 5/8/2013 5/8/2013 5/8/2013 nncy: Fabricated a REF: WS802 Fabricated a was made usi mounted to the installed IAV match the pection: al. 05/06/2013 05/08/2013 nncy: Remove Flite 2024-T3 .125	and S/N 1629 Installation fun By: Steve M By: Scott Sr By: Craig Sr By: closeout for the step of the pedestal us W AC43. All plication of the step of the st	of the SSDTU to attach the SSDTU on the back of the state of t	P/N 1408-00-2 S/S-1E Installation M to the back of the of the pedestal. The elementary of the pedestal of the nutplates. All fastated, primered and seated, primered and seated.	Manual. System checks
	Inspected: Double Inspected: Completed: Step Discrepa Step Resolu Signed Off: Inspected: Step Discrepa Step Resolu	Performed post i good on ground. 5/8/2013 5/8/2013 5/8/2013 5/8/2013 Ancy: Fabricated a REF: WS802 Fabricated a was made usi mounted to the installed IAV match the pection: al. 05/06/2013 05/08/2013 Ancy: Remove Flite 2024-T3 .125 tion:	and S/N 1629 Installation fun By: Steve M By: Scott Sr By: Craig Sr By: closeout for the step of	of the SSDTU to attach the SSDTU on the back of alclad and 0.050 2024 ing (8) 8-32 screws & parts were chemically tree of the school of the sc	P/N 1408-00-2 S/S-1E Installation Metabolic S/S-1E Installation Me	Manual. System checks manual System checks
	Inspected: Double Inspected: Completed: Step Discrepa Step Resolu Signed Off: Inspected: Step Discrepa Step Resolu Signed Off:	Performed post i good on ground. 5/8/2013 5/8/2013 5/8/2013 5/8/2013 Anney: Fabricated a REF: WS802 Fabricated a was made usi mounted to the installed IAV match the pection: al. 05/06/2013 05/08/2013 Anney: Remove Flite 2024-T3 .125 tion: 04/29/2013	and S/N 1629 Installation fun By: Steve M By: Scott Sr By: Craig Sr By: Closeout for the second for the se	of Wt. 0.5 lbs. SSDTU loctional check IAW UN dorris mith tout the SSDTU to attach the SSDTU on the back of alclad and 0.050 2024 ing (8) 8-32 screws & parts were chemically tree of the property of the prop	P/N 1408-00-2 S/S-1E Installation M to the back of the of the pedestal. The elementary of the pedestal of the nutplates. All fastated, primered and seated, primered and seated.	Manual. System checks
Step: 2.1.2	Inspected: Double Inspected: Completed: Step Discrepa Step Resolu Signed Off: Inspected: Step Resolu Signed Off: Inspected:	Performed post i good on ground. 5/8/2013 5/8/2013 5/8/2013 5/8/2013 necy: Fabricated a REF: WS802 Fabricated a was made usi mounted to the installed IAV match the pection: al. 05/06/2013 05/08/2013 necy: Remove Flite 2024-T3 .125 tion: 04/29/2013 04/29/2013	and S/N 1629 Installation fun By: Steve M By: Scott Sr By: Craig Sr By: Closeout for the step of the pedestal use of the step of the	of Wt. 0.5 lbs. SSDTU loctional check IAW UN dorris mith tout the SSDTU to attach the SSDTU on the back of alclad and 0.050 2024 ing (8) 8-32 screws & parts were chemically tree of the property of the prop	P/N 1408-00-2 S/S-1E Installation No. 15 Installation No. 15 Installation No. 15 Installation No. 15 Installation. The clause of the pedestal. The extrusion. The clause of the pedestal of the pedestal of the pedestal of the pedestal. The extrusion of the pedestal of the	Manual. System checks
	Inspected: Double Inspected: Completed: Step Discrepa Step Resolu Signed Off: Inspected: Step Discrepa Step Resolu Signed Off: Inspected: Step Discrepa	Performed post i good on ground. 5/8/2013 5/8/2013 5/8/2013 5/8/2013 necy: Fabricated a REF: WS802 Fabricated a was made usi mounted to the installed IAV match the pection: al. 05/06/2013 05/08/2013 necy: Remove Flite 2024-T3 .125 tion: 04/29/2013 04/29/2013 necy: Remove Flite	and S/N 1629 Installation fun By: Steve M By: Scott Sr By: Craig Sr By: Closeout for the step of the pedestal use of the step of the	of Wt. 0.5 lbs. SSDTU loctional check IAW UN dorris mith tout the SSDTU to attach the SSDTU on the back of alclad and 0.050 2024 ing (8) 8-32 screws & parts were chemically tree of the property of the prop	P/N 1408-00-2 S/S-1E Installation Metabolic S/S-1E Installation Me	Manual. System checks

West Star Aviation, Inc. - GJT

790 Heritage Way Grand Junction, CO 81506 United States May 10, 2013

Vork C	Order: 2	9019	Title: Evergr	een Int'l Aviation		Department: Avionics Install
Registr	ration#	N22MS	;	Serial #: 35A209		Repair Station: WTXR173J
em:	2	Avionics Install		Part #: 35A		Serial #: 35A209
		Inspe	cted: 05/08/2013	By: Scott Sn	nith	
Sten:	2.1.4	="	crepancy: Remove	•		
step.	2.1.1	•			P/N 400-0032-2 S	/N 1577 Wt. 1.0 lbs.
: !		-	Off: 05/08/2013	By: Steve M		
		Inspec	cted: 05/08/2013	By: Scott Sn	nith	
Step:	2.1.5	Step Disc	crepancy: Remove	Flitefone cockpit ha	ndset	
		Step R	esolution: Removed	Flitefone cockpit h	andset P/N 400-0	031-1 S/N 0380 Wt. 1.13 lbs.
		-	Off: 05/08/2013	By: Steve M	orris	
		Inspec	cted: 05/08/2013	By: Scott Sn	nith	er de la companya de
Step:	2.1.6	-	•	Flitefone cabin hand		
		•				30-1 S/N 2759 Wt. 2.7 lbs.
		_	Off: 05/08/2013	By: Steve M		the second of th
-		•	cted: 05/08/2013	By: Scott Sn		
Step:	2.1.7	-		the C/B overlay for	the dual Universa	al UNS-1E FMS's.
			esolution: Off: 05/08/2013	Bv: Jason W	illard	
			cted: 05/08/2013	By: Doug Ho		
Sten	2.1.9	•		paint on the antenn	_	Ly
этер.	4.1.7	Step Disc		-	=	I, painted to match a/c. All work
				V m/m standard prac		
		Step Re	esolution:	·	•	
			Off: 05/01/2013	By: Mike W		to other continues.
		•	eted: 05/01/2013	By: Wayne (Constitution of the Health
Step:	2.1.10			ee's for return of two		
		-				nd 387 to vendor for credit.
		_	Off: 05/10/2013	By: John Ne		to be a construction of the control
		•	eted: 05/10/2013 eted: 05/10/2013	By: John Ne		The sector of participation of
				By: John Ne	verdahl	** ** ** ** ** ** ** ** ** ** ** ** **
Squav	wk: 2	2 Discrepan	cy: Interior R&I			
		Resolution	on: Removed and	reinstalled interior a	s necessary.	
		Signed O	off: 5/8/2013	By: Steve Mor	rris	All Control of the Co
		Complet	ed:	By:		
		· · · · · · · · · · · · · · · · · · ·	X4. 416 1 -	_111	CDTI	
Squav	wk: 3	B Discrepan		al to allow installation one System (R/T, A		nd 2 Handsats)
		Resolutio		stal to allow installa		nu 2 rianuscis)
		Resolutio	•	star to allow installa fone system and cap		virino
				P/N 400-0033 S/N	•	
				pit handset P/N 400		
				ol P/N 400-0032-2		
				handset P/N 400-0		
				nna P/N S65-1016-1		
		Signed O		By: Steve Mor		Andrew State (1994)
		Inspecto		By: Scott Smit	h	and the feedback of the development of the second of the s
		Double Inspect	ed: 5/9/2013	By: Hugh Has		

West Star Aviation, Inc. - GJT

Grand Junction, CO 81506

May 10, 2013

United States		Telephone:	970-243-7500 Fax: 970-242-5178
Work Order: 29019 Registration# N22MS	-	en Int'l Aviation erial#: 35A209	Department: Avionics Install Repair Station: WTXR173J
Item: 2 Avionics Install Completed:		Part #: 35A By:	Serial #: 35A209
Step: 2.3.1 Step Discrep	•	stal and fabricated Dsuz blank p	olates.
Signed Off	: 05/08/2013 : 05/08/2013	By: Jason Willard By: Doug Hoogeveen	Constant of the state of the st
Item: 3 Airframe Maintenanc	e	Part #: 35A	Serial #: 35A209
Squawk: 1 Discrepancy:			Hour Inspection of #1 and #2 Ni-Cad Emergency
Resolution:	Complied with Power Supply 1	IRN D1223000, 3 Month, 100 Battery (PS-823) IAW LJ 35 M	Hour Inspection of #1 and #2 Ni-Cad Emergency M chapter 24. Ops check good.
Signed Off:	4/23/2013	By: Cody Cutshall By: Duane Hamilton	in Autority Processing
Inspected: Double Inspected:	4/25/2013 4/29/2013	By: Duane Hamilton By: John Bauer	Ending to the control of the control
Completed:	4/30/2013	By: Jason Blust	
Squawk: 2 Discrepancy:		RN G1222002, (600-Hour / 12-lotive Electrolyte)	Month or 200-Hour / 3-Month) Lead Acid Battery
Resolution:	RG-380E-44 S. 35A MM chapt	/N 40455637 and forwarded to er 24 CC 04-22-2013 Received / P/N RG-380E/44 S/N 404550	44 S/N: 40455612, and #2 Lead acid battery P/N: accessory department. Work perrformed IAW LJ Tested #1 Battery P/N RG-380E/44 S/N 40455612 637 and installed IAW learjet 35 M/M Chapter
Signed Off:	4/30/2013	By: Cody Jones	relectionic signification
Inspected:	4/30/2013	By: Duane Hamilton	(chearonne a grature)
Double Inspected: Completed:	5/1/2013	By: John Bauer By:	the former of extremely
Step Resol	battery P/ 04-22-201 Battery P/ Chapter 2-	#1 Lead acid battery P/N: RG-380 N: RG-380E-44 S/N 40455633 3 Received Tested #1 Battery P/ N RG-380E/44 S/N 40455637 4-32-01. 4-25-13 CLJ.	for Inspection (Captive Electrolyte) DE-44 S/N: 40455612, and #2 Lead acid TIAW LJ 35A MM chapter 24 CC N RG-380E/44 S/N 40455612 and #2 and installed IAW learjet 35 M/M
_	04/30/2013	By: Cody Jones	a Azono sun se guntures
·	04/30/2013	By: Duane Hamilton	de des deceptes amb est conf
	Acid Batte 40455612,	eries Inspection (Captive Electro ,	2-Month or 200-Hour/3-Month) Lead lyte). Battery P/N: RG-380E/44 S/N:
Step Resolu	100%. Re		. Battery passed capacity check at 44-30-71, DWG. NO. 5-0171, Rev M,
1	04/24/2013	By: Jeff Sorensen	(electropic), espectance
•	04/24/2013	By: Mark Neverdahl	to a creating at timing a
Double Inspected:	04/25/2013	By: Rene Medina	e di paralita semana A

Page 4 of 7

West Star Aviation, Inc. - GJT

790 Heritage Way
Grand Junction, CO 81506
United States

May 10, 2013

United States		Telephone: 970-243-750	00 Fax: 970-242-5178
Work Order: 29019	Title: Evergreen Int'l	Aviation	Department: Avionics Install
Registration# N22MS	Serial #:	35A209	Repair Station: WTXR173J
4.		254	254200
Item: 3 Airframe Maintenance		art #: 35A	Serial #: 35A209
	Acid Batteries In 40455637	G1222002,(600-Hour/12-Month or 2 aspection (Captive Electrolyte). Batter	ry P/N: RG-380E/44 S/N
Step Resolu		erformed capacity check. Battery p d IAW Concorde CMM 24-30-71, DW 2012.	
Signed Off:	04/24/2013 B	y: Jeff Sorensen	aste, reading comments
· ·	•	y: Mark Neverdahl	son where stimmers a
Double Inspected:	04/25/2013 B	y: Rene Medina	en la contrata de la
Squawk: 3 Discrepancy:	R/H standby pump is !	leaking from case drain.	
Resolution:		np P/N: RR12670F/ 2380060-29, S/N: R12670F/ 2380060-29, S/N: B-4094 IA	•
Signed Off:	4/29/2013 By:	Cody Cutshall	
Inspected:	4/29/2013 By:	Duane Hamilton	
Double Inspected: Completed:	5/1/2013 By: By:		erincanoma: 4emphases
Squawk: 4 Discrepancy:	R/H wing sump drain	is leaking.	
Resolution:	Removed and replace 35A MM chapter 28 le	d O-rings in sump drain and O-ring of eak check satisfactory.	on defuel valve lever shaft. IAW LJ
Signed Off:	4/29/2013 By:	Cody Cutshall	is Espaining Signatures
Inspected:	4/29/2013 By:	Duane Hamilton	freezintek kipterine.
Double Inspected: Completed:	5/1/2013 By: By:		(A ctreate signance)
Squawk: 5 Discrepancy:	R/H wing kidney pane	_	
Resolution:	chapter 28 leak check		
Signed Off:	4/29/2013 By:	•	of the motion of publications
Inspected:	4/29/2013 By:		Education with strength of the
Double Inspected: Completed:	5/1/2013 By: By:	John Bauer	e 1. (1.00m - Sq. mane)
Squawk: 6 Discrepancy:	R/H MLG forward fair	ring has several dome nutplates leaking	g fuel.
Resolution:		orward fairing cleaned old sealant from nstalled R/H MLG forward fairing IA	
Signed Off:	4/29/2013 By:	Cody Cutshall	(electronic ognomic)
Inspected:	4/29/2013 By:	Duane Hamilton	reaction with the second
Double Inspected:	5/1/2013 By:	John Bauer	referencia, comunica
Completed:	By:		,

West Star Aviation, Inc. - GJT

Work Order Detail

790 Heritage Way Grand Junction, CO 81506 United States May 10, 2013

United States				Telephone: 97)-243-7500 Fax: 970-242-	-5178
Work Order:	29019	Title: Evergr	een Int'l 2	Aviation	Department: Avionics Install	•
Registration #	N22MS	!	Serial #:	35A209	Repair Station: WTXR173J	
Item: 3	Airframe Maintenand	ee	Pa	rt #: 35A	Serial #: 35A209	
Squawk:	7 Discrepancy:	Comply with	Pre-Deliv	ery Inspection		
	Resolution:	found to be lo	ow, servi		MM chapter 12. Oxygen and nitrogen W LJ MM chapter 12 DP 5-7-13. Complivery form.	
	Signed Off:	5/8/2013	By:	Cody Cutshall	e kentenne ennemmy	
	Inspected:		By:	Duane Hamilton	(olectronic strasiture)	
	Double Inspected:		By:	Hugh Hasley	Maria Cara (Cara Cara Cara Cara Cara Cara Ca	
	Completed:		By:			
	A.:				254200	
Item: 4	Avionics Repair	C lo - M		rt #: 35A	Serial #: 35A209	
Squawk:	l Discrepancy:	Comply with	KVSM K	ecertification		
		ent done hh				
	Resolution:	the #I and #2 Certified the # the Standby A 14 CFR, part Certified tf 622-1270-001 probe alignment	automat I ADDU Itimeter p 43, appen he # 1 i s/n 129 ent IAW I	ic altitude reporting system p/n 9d-80130-1 s/n 10519ar l/n 16650-1150 s/n 171575 I l/dix E para (b) to an altitude transponder p/n 622-1270-37 IAW 14 CFR part 43, ap Learjet RVSM ICA AMI-S R 91.411 and 91.413 and fo	arjet RVSM ICA AMI-STC-LJ3536. Cers IAW 14 CFR part 43, appendix E part d the #2 ADDU p/n 9d-80130-1 s/n 4186 AW Learjet RVSM ICA AMI-STC-Lj3536 of 45,000 feet. 001 s/n 1116 and the #2 transponder pendix F para (a thru d). Checked Pitot/STC-LJ3536. The above certifications means flight into RVSM airspace.	ra (c). 7 and 6 and r p/n Static
	Signed Off:		By:	Stan Sinclair	echochronic signicidant	
	Inspected:		By:	Scott Smith	Edizalitate squad och	
	Double Inspected:	5/8/2013	By:	Craig Stout	(chatanak sagasa sa)	
	Completed:		By:	orang oroat		
		O	WOD			
Squawk:	2 Discrepancy:				515 54 15 4 4 5 4	
	Resolution:		operatio		spec. as per FAR 91.171 No faults detec	ted.
	Signed Off:		By:	Stan Sinclair	(cheatenic ampaine)	
	Inspected:	5/8/2013	By:	Scott Smith	referitoria, capo auto a	
	Double Inspected: Completed:	5/8/2013	By: By:	Craig Stout	(educaries), ee Sarry	
Squawk:	3 Discrepancy:	Standby altimo		tor inop		
	Resolution:		N 11650-	1150 S/N 171152 1150 S/N 171575		
VS Wood-OndowDoo	Signed Off:	performed leal	k test, Ch	er vibrator, checks good ecks good awk 29019 step 4.1 Stan Sinclair	1 the server of a finite	

West Star Aviation, Inc. - GJT

Completed: 5/10/2013

Work Order Detail

790 Heritage Way Grand Junction, CO 81506 United States May 10, 2013

United S		., 00 01300		Tele	ohone: 970-243-7500	Fax: 970-242-5178
		29019 # N22MS	•	een Int'l Aviation Serial#: 35A209	·	ment: Avionics Install Station: WTXR173J
Item:	4	Avionics Repair		Part #: 35A	Serial	#: 35A209
		Inspected:	5/8/2013	By: Scott Smith	s hades	the application
		Double Inspected:	5/8/2013	By: Craig Stout		
		Completed:		By:		
Item:	5	Quality Assurance		Part #: 35A	Serial	#: 35A209
Squa	wk:	1 Discrepancy:	Comply with	Return to Service		
		Resolution:	determined to	be in an airworthy condit	ected as required by 14CFR ion and approved for return to n file at this repair station und	service with respect to the
		Signed Off:	5/10/2013	By: Hugh Hasley	1715 (6 \$45)	ik opastouri
		Inspected:	5/10/2013	By: Hugh Hasley	Astro-	de regionale de

* End of Report*

By: Hugh Hasley

J.S Department of Federal Aviation

MAJOR REPAIR AND ALTERATION

Form Approved Electronic Tracking Number

11/30/2007	
For F	AA Use Only

(Airframe, Powerplant, Propeller, or Appliance) Administration INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958) Nationality and Registration Mark Serial No. N22MS 35A-209 1. Aircraft Make Model Series LEARJET 35A Address (As shown on registration certificate) Name (As shown on registration certificate) Address 3850 THREE MILE LN 2. Owner EVERGREEN EQUITY INC. **MCMINNVILLE** State OR 97128-9402 Country UNITED STATES 3. For FAA Use Only 4. Type 5. Unit Identification Repair Alteration Unit Make Model Serial Number (As described in Item 1 above) Х AIRFRAME POWERPLANT PROPELLER Type **APPLIANCE** Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency Name West Star Aviation U.S. Certificated Mechanic ☐ Manufacturer Address 796 Heritage Way C. Certificate No. Foreign Certificated Mechanic **Grand Junction** City State CO \boxtimes Certificated Repair Station WTXR173J 81506 USA Certificated Maintenance Organization D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. Extended range fuel Signature/Date of Authorized Individual per 14 CFR Part 43 App. B turs Scott Smith MAY/08/2013 7. Approval for Return to Service Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED . REJECTED FAA Flt Standards Person Approved by Canadian Manufacturer Maintenance Organization Department of Transport Inspector BY Other (Specify) FAA Designee Repair Station Inspection Authorization Certificate or Signature/Date of Authorized Individual Designation No. WTXR173J Scott Smith MAY/08/2013

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N22MS

MAY/08/2013

NATIONALITY & REGISTRATION MARK

DATE

The following Supports the Installation of Dual Universal Avionics UNS-1E Flight Management System (FMS) IAW West Star Aviation Drawing No.6875312-001, Rev IR, dated APR/11/2013

Removed the following equipment for this installation:

Universal UNS-1M (2ea) P/N 1013-41-011 @ F.S.184.78

Installed the following components for this installation:

- Universal UNS-1E (2ea) P/N 2017-42-211 @ F.S. 184.78
- GPS Antenna (2ea) P/N 10706 2 F.S. 234.19 & 271.99
- Solid State Data Transfer Unit SSDTU P/N 1408-00-2 @ F.S. 198.80
- Configuration Module (2ea) P/N 10171 @ F.S. 184.78

The new Universal Avionics UNS-1E are replacement upgrades for the UNS-1M. The UNS-1E requires the installation of a Solid State Data Transfer Unit, SSDTU, for installation and upgrade of the navigational data. The existing GPS antennas were removed and the new GPS antennas were reinstalled in the existing locations. No structural modifications for the antennas were required. The SSDTU was installed at the aft end of the pedestal. Reference West Star Aviation Form802 for details regarding the SSDTU installation.

The electrical aspects of the UNS-1E FMS System was installed IAW West Star Aviation Drawing No. 6875312-001, Rev IR, dated APR/11/2013 and approved by FAA Form 8110-3, dated May/08/2013, DERT-230135-CE

A copy of FAA Approved Airplane Flight Manual Supplement, AFMS, Document No. 6855312-001, Rev IR, dated MAY/01/2013, DERT-500117CE, has been provided to the owner / operator.

A successful post installation check out was accomplished IAW Universal Avionics Corp. UNS-1E & UNS-1C+ Flight Management Systems Technical Manual, Rev 1, dated May/01/2012

Upon completion of the above listed alteration, a successful EMI/EMC source / victim test was performed IAW West Star Aviation, Document No. 00-300T001, Rev A, dated NOV/28/2007

Reference West Star Aviation Amendment to the Equipment List and Weight and Balance Form, dated MAY/08/2013 for information and details to installed and removed equipment for this alteration.

Equipment was installed in a manner that will not interfere with or adversely affect the safe operation of the aircraft.

Equipment listed above is "ON CONDITION" and is checked for operation and security at existing inspection intervals Wiring conforms to MIL-C-27500, MIL-W-22759, and M17/176-00002

The above installation was accomplished IAW the following criteria:

- Lear Jet 35A, S/N 35A-209 Avionics Wiring Diagram Package
- West Star Aviation Drawing No. 6875312-001
- 14 CFR 25 Subpart F.
- AC43.13-1B, Chapter 4, Chapter 6, Chapter 7, Chapter 10, Chapter 11.
- AC43.13-2A, Change 2, Chapter 1, Chapter 2, Chapter 3, Chapter 13.

x Additional Sheets Are Attached	

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

MANUFACTURER	MODEL	SERIAL	REGISTRATION #	DATE
LEARJET	35 A	35 A-209	N22MS	MAY/08/2013

1. INTRODUCTION

The following Instructions for Continued Airworthiness (ICA) satisfy the requirements of 14 CFR 25,1529, and provide the information necessary to complete the on-going maintenance and inspections for the installation described herein.

2. DESCRIPTION

A system description, including maintenance, wiring diagrams, troubleshooting and functional tolerances information is contained in the following document(s):

- West Star Aviation Drawing No. 6875312-001, Rev IR, dated APR/11/2013
- Universal Avionics Corp. UNS-1E & UNS-1C+ Flight Management Systems Technical Manual, Rev 1, dated MAY/01/2012

3. CONTROL AND OPERATION INFORMATION

West Star Aviation Airplane Flight Manual Supplement, Document No. 6855312-001, Rev IR, dated MAY/01/2013

4. SERVICING INFORMATION

This equipment may be serviced by any appropriately rated mechanic, repairman, or repair station

5. MAINTENANCE INSTRUCTIONS

Continued airworthiness is contingent upon compliance with the following inspection items. These items shall be completed in conjunction with the Lear Jet 35A Phase B, or other approved program, at intervals not to exceed 24 months, or upon any system component removal and replacement.

- Condition and security of mounting, associated structure, and connectors.
- Condition and security of wiring, wiring support and routing.
- System functional test.

6. TROUBLESHOOTING INFORMATION

- West Star Aviation Drawing No. 6875312-001, Rev IR, dated APR/11/2013
- Universal Avionics Corp UNS-1E & UNS-1C+ Flight Management Systems Technical Manual, Rev 1, dated MAY/01/2012

7. REMOVAL AND REPLACEMENT INFORMATION

N/A

8. DIAGRAMS OF ACCESS PANELS

N/A

9. SPECIAL INSPECTION TECHNIQUES AND REQUIREMENTS

N/A

10. PROTECTIVE TREATMENT INFORMATION

N/A

11. STRUCTURAL FASTENER DATA

N/A

12. LIST OF SPECIAL TOOLS

N/A

13. COMMUTER AIRCRAFT

N/A

14. RECOMMENDED OVERHAUL INTERVAL

N/A

15. AIRWORTHINESS LIMITATIONS

Continued airworthiness is contingent upon compliance with all of the above listed inspection items. No additional life limited components are introduced by the changes detailed on the attached FAA Form 337.

16. REVISION

This document may be revised by submitting a copy of the original FAA Form 337 and the revised ICA to the Aircraft Registration Branch in Oklahoma City, and making an entry in the aircraft records indicating the current revision.

AFM Supplement for Learjet 35A Dual Universal Avionics UNS-1E Flight Management Systems

FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT UNIVERSAL AVIONICS SYSTEMS CORPORATION (UASC) DUAL UNS-1E MULTI-SENSOR LONG RANGE FLIGHT MANAGEMENT SYSTEM (FMS)

SOFTWARE VERSION SCN 803.2

AIRCRAFT MAKE: LEARJET

AIRCRAFT MODEL: 35A

AIRCRAFT SERIAL NO: 209

AIRCRAFT REG. NO: N22MS

This supplement must be attached to the FAA Approved Airplane Flight Manual when Universal Avionics Corporation (UASC) Dual UNS-1E Flight Management System (FMS) with SCN 803.2 are installed in accordance with FAA Form 337 dated

The information contained herein supplements or supersedes the basic Airplane Flight Manual for the Learjet 35A only in those areas listed. For limitations, procedures and performance information not contained in this supplement consult the basic Airplane Flight Manual.

FAA APPROVED: See Page 2

Doc. No. 6855312.001

Rev IR

Page 1 of 11

STATEMENT OF CO	MAY/01/2013		
2. MAKE	AIRCRAFT OR AIRCRAFT COMPONE 3. MODEL NO. 4. TYPE		5. NAME OF APPLICANT
Learjet	35A	Airplane	West Star Aviation
,	LIST OF DATA		
6. IDENTIFICATION	LIST OF DATA	7. TITLE	
West Star Aviation Document			
68553 12.001 Revision IR	FAA Approved Airplane Flight Manual 3 For Installation of Dual Universal UNS-1 in a Learjet Model 35A		S
	This approval is valid for Learjet 35A, se	erial number 209 only.	
8. PURPOSE OF DATA			
	In Support of an FAA Form 337	Major Alteration	
9. APPLICABLE REQUIREME 14CFR Part			.1585(a), (b)
14CFR Part 10. CERTIFICATION – Und appointment under 14 CFR Part established procedures and for	NTS (List specific sections)	(a), (b); 25.1581(a), (b), (d); 25 and in accordance with conditions numbered have been exa	
14CFR Part 10. CERTIFICATION – Und appointment under 14 CFR Pa established procedures and for ☐ Re 1 / XX Therefore ☑ Ap	NTS (List specific sections) 25 (Through Amendment 25-120) – 25.1501 er authority vested by direction of the Administrator art 183, data listed above and on the attached sheets and to comply with applicable requirements of the Accommend approval of these data	(a), (b); 25.1581(a), (b), (d); 25 and in accordance with conditions numbered have been exa	and limitations of
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14CFR Part 10. CERTIFICATION – Und appointment under 14 CFR Part established procedures and for □ Re 1 / XX Therefore □ Ap	NTS (List specific sections) 25 (Through Amendment 25-120) – 25.1501 er authority vested by direction of the Administrator art 183, data listed above and on the attached sheets and to comply with applicable requirements of the Accommend approval of these data prove these data GNATED ENGINEERING REPRESENTATIVE(S)	(a), (b); 25.1581(a), (b), (d); 25 and in accordance with conditions numberedhave been exactive and the standards listed 12. DESIGNATION NUMBER(S)	and limitations of amined in accordance with

FAA FORM 8110-3 (03/10) SUPERSEDES PREVIOUS EDITION

Doc, No. 6855312.001 Rev IR Page 2 of 11

FAA Approved Date: MAY/01/2013

AFM Supplement for Learjet 35A Dual Universal Avionics UNS-1E Flight Management Systems

LOG OF REVISIONS

REVISION NUMBER	REVISED PAGES	DESCRIPTION OF REVISION	FAA APPROVAL
IR	All	Initial Release	M.D. Haycock MAY/01/2013

Vertical black lines in the margin indicate the revised portions of affected pages.

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VI	PERFORMANCE DATA	11

MAY/01/2013

AFM Supplement for Learjet 35A Dual Universal Avionics UNS-1E Flight Management Systems

SECTION I - GENERAL

A. INSTALLATION DESCRIPTION

The Dual Universal Avionics Systems Corporation (UASC) UNS-1E Flight Management System (FMS) is a multi-sensor navigator with an internal GNSS sensor. The No. 1 Control Display Unit (CDU) and No. 2 CDU are located in the pedestal. The FMS's receive air data information from an existing Air Data Computer and supply navigation and steering to the Flight Instruments and the Flight Control System. A Steering Interface Unit is installed to provide lateral roll steering capability to the flight director/autopilot.

The internal GNSS sensor incorporates Receiver Autonomous Integrity Monitoring (RAIM). A Solid State Data Transfer Unit (SSDTU) is used to load the periodic navigation database updates via Universal Serial Bus (USB) and Secure Digital (SD) mass storage devices.

The FMS's contain software SCN 803.2 that provides capability for point-to-point navigation, as well as SID's, STARS, holding patterns and approaches. SCN 803.2 complies with requirements of TSO-C115b and TSO-C129a, & TSO-C144 when interfaced to the internal GPS sensor, which is TSO-C146b certified.

Lateral and vertical steering is provided for enroute, terminal area and approach operations, including GPS and GPS overlay approaches.

B. LATERAL NAVIGATION APPROVALS

Provided the UNS-1E multi-sensor navigation system is receiving usable signals, it has been demonstrated capable of and has been shown to meet the accuracy specifications of:

 VFR/IFR enroute oceanic and remote, enroute domestic, terminal, precision instrument Approach (ILS) and non-precision instrument approaches (LOC, BC, GPS and GPS-overlay NDB, VOR, VOR-DME and RNAV) operations within the U.S. National Airspace System using the WGS-84 coordinate reference datum in accordance with the criteria of Advisory Circular AC 20-130A,

NOTE: Satellite navigation data is based upon use of only the Global Positioning System (GPS) operated by the United States and augmented by the SBAS provider.

This does not constitute an operational approval.

- The Jeppesen database complies with the requirements for processing navigation data for use in UASC Flight Management Systems (SCN 803.x) under RTCA / DO-200A Standards for Processing Aeronautical Data in accordance with the criteria of Advisory Circular AC 90-100A.
- The UNS-1E when operating with RAIM GPS as the only navigation sensor, is approved for IFR enroute, terminal, and approach operations in accordance with AC 20-138A.
- B-RNAV operation within the European Airspace System in accordance with the criteria of JAA Temporary Guidance Material, Leaflet No.2, Rev. 1; AMJ 20X2 and Leaflet No.3, Rev. 1.
- The Dual FMS installation with internal GPS sensors, as installed, complies with the requirements of FAA Notice 8110.60 for GPS primary means of Class II navigation in oceanic and remote airspace (including NAT MNPS in accordance with AC 120-33 and AC91-49, AC25-4 and FAR Part 121, Appendix G, Section 6), when used in conjunction with the Universal Flight Planning Program, PN 10751 with SCN 25 or later FAA approved version.

This does not constitute an operational approval.

Doc. No. 6855312.001 Rev IR Page 5 of 11

AFM Supplement for Learjet 35A Dual Universal Avionics UNS-1E Flight Management Systems

SECTION I - GENERAL (Continued)

RNP - Approvals

 The dual multi-sensor FMS installation integrates dual GPS sensors and complies with equipage and accuracy requirements of FAA Order 8400.12A paragraph 12b(4), for operations in RNP-10 airspace.

This does not constitute an operational approval.

 This installation also complies with equipage and accuracy requirements of AC 90-96 paragraph 7b(1), 7d(3)(a) 2, 7d(3)(e) for BRNAV (RNP-5) when operating in Class I airspace, without time limits.

Table 1 details time limitations placed on RNP-5 (BRNAV) operations with minimum sensors in NAV mode.

Sensors available	RNP-5 (BRNAV) Limitations (Minimum single FMS required)
1 GPS only	No time limitation when used in conjunction with UFP
VOR/DME	No time limitation
DME/DME	No time limitation

Table 1.

- Precision Area Navigation (P-RNAV) Operation in European Designated Airspace in accordance with AC20-130A, AC90-96A and JAA TGL-10 is approved provided at least one UNS-1E is receiving useable signals from one or more of the following:
- a. GPS
- b. One VOR/DME or multiple DME's

NOTE 1: Selected FMS approach procedure must not be manually manipulated

NOTE 2: RNP flight operations are subject to GPS satellite availability and/or navaid coverage for the selected route. Navigation based on DME updating modes is permitted but may be restricted by the availability or performance of the applicable ground navaids. Crew should deselect ground navaids that are not to be used for navigation.

This does not constitute an operational approval.

C. VERTICAL NAVIGATION APPROVAL

The UNS-1E FMS System as installed meets the requirements for VFR/IFR enroute, terminal area and approach VNAV (baro-VNAV) operations within the conterminous United States and Alaska in accordance with criteria of AC 20-129 for advisory and flight guidance system coupled operations

AFM Supplement for Learjet 35A Dual Universal Avionics UNS-1E Flight Management Systems

SECTION II - LIMITATIONS

- The UNS-1E Operator's Manual, Report No. 2423sv803/903, FEB 2008 (or later revision), must be available to the flight crew whenever navigation is predicated upon the use of the UNS-1E Flight Management System.
- 2. The system must utilize software version SCN 803.2
- 3. The UNS-1E does not meet the airworthiness requirements for GNSS or SBAS augmentation (WAAS). Therefore flight operations using LPV or LNAV/VNAV approach minimums are prohibited.

NOTE

Approaches using baro VNAV approved in accordance with AC 20-129 are not based upon any augmentation. Therefore approaches using baro-VNAV are approved but are limited to the standard landing minimums assuming no vertical guidance.

- 4. IFR Enroute and Terminal navigation is prohibited unless the pilot verifies the currency of the database or verifies each selected waypoint for accuracy by reference to current approved data.
- The UNS-1E is approved for lateral Flight Director and autopilot coupled GPS, NDB, RNAV, VOR-DME, AND VOR approaches only when the UNS-1E is in FMS Approach Mode (which provides expanded HSI deviations).
- Instrument approaches must be accomplished in accordance with approved instrument approach procedures that are retrieved from the FMS database. The FMS database must incorporate the current update cycle.
 - a. Instrument approaches must be conducted in the Approach mode, and GPS Integrity monitoring (when using GPS for approach guidance) must be available at the Final Approach Fix, as indicated to the pilot on the PFD by the FMS Status "GPS INTEG" (amber) annunciator being off.
 - b. When an alternate airport is required, pilots may use an alternate based on LNAV minimums as long as the approach procedure is not marked Alternate NA.
 - GPS may only be used for approach guidance if the reference coordinate datum system for the approach is WGS-84.

(NOTE: GPS will remain selected for all approved GPS or GPS overlay approaches supplied in the navigation database.)

d. The FMS is approved for pilot-defined VFR approaches as a VFR pilot aid only.

NOTE: All sensors remain selected for VFR approaches.

- 6. Navigation cannot be predicated on the use of non-GPS long range sensors alone while in terminal areas or during departures from or approaches to airports or into valleys; e.g., between peaks in mountainous terrain or below Minimum Enroute Altitude (MEA).
- 7. The aircraft must have AC90-100 and AC90-101 approved navigation equipment installed and operating appropriate for the route of flight.

AFM Supplement for Learjet 35A Dual Universal Avionics UNS-1E Flight Management Systems

SECTION II - LIMITATIONS (CONTINUED)

- **8.** Displayed UNS-1E navigation parameters are referenced to Magnetic North. Operation of the aircraft is limited to latitudes between N73° and S60°. To operate north of latitude N73° or south of S60°, unless magnetic variation is manually entered by the pilot.
- When using VNAV, the altimeter on each pilot's panel must be used as the altitude reference for all operations.
- 10. Fuel display parameters are advisory only and do not replace primary fuel quantity or fuel flow gauges for fuel load and range planning.
- 11. The MAP display must not be used for pictorial situational awareness when a DME-arc procedure is the active TO leg. The MAP display cannot depict a DME arc.

SECTION III - EMERGENCY PROCEDURES

No change to FAA Approved Airplane Flight Manual.

SECTION IV - NORMAL PROCEDURES

1. OPERATION

Normal operating procedures are outlined in the UNS-1E Operator's Manual, 2423sv803/903, FEB 2008 (or later revision).

2. NAVIGATION DATABASE VERIFICATION

After power-on self-tests have been completed, the INITIALIZATION page will appear. The term 'NAV DATABASE EXPIRES' followed by a date will be displayed. If the actual date is later than that which is displayed, the FMS will notify the pilot with a "DATABASE EXPIRED" message. Refer to the Operator's Manual for navigation database update instructions.

SECTION IV - NORMAL PROCEDURES (CONTINUED)

3. SYSTEM ANNUNICATORS

The FMS generates outputs for the following external annunciators on the pilot's and copilot's instrument panel:

FMS ANNUNCIATORS	COLOR	DESCRIPTION
MSG	Amber	Illuminates to notify the pilot that a FMS message is present on the CDU.
WPT	Amber	Illuminates (steady) to indicate waypoint alert fifteen seconds prior to waypoint in enroute mode and five seconds prior in approach mode. When this annunciator flashes, it indicates that an upcoming vertical Flight Path Angle (FPA) change is within two minutes.
GPS INTEG	Amber	Illuminates to indicate GPS Integrity is outside of the allowable limit for phase of flight (2.0-nm enroute, 1.0 nm terminal and approach transition, and 0.3-nm final approach segment). See Section 4, Abnormal Procedures.
SXTK	Amber	Illuminates to indicate selected crosstrack is active.
HDG	Green	FMS is in Heading Mode
APP	Green	Illuminates to indicate an approach has been activated.
VHF NAV	Green	Illuminates to indicate VHF Navigation is active
LRN	Green	Illuminates to indicate FMS Long Range Navigation is active
SIU FAIL	Amber	Illuminates if the Steering Interface Unit fails or power is lost

4. AIRCRAFT INTEGRATION

Display of UNS-1E information:

UNS-1E FMS Navigation data is displayed on the pilots and copilots ADI/HSI by pressing the **VHF NAV / LRN** annunciator switch, located below the pilot or copilot HSI, until the **LRN** portion illuminates. The following display data will then be available from the onside UNS-1E:

- A) Bearing to waypoint
- B) Distance to waypoint
- C) Crosstrack deviation
- D) To/From pointer
- E) Nav valid flag
- F) Vertical Deviation (only when valid)
- G) Vertical Deviation valid flag

CDI Deviation Scale Factors for Full Scale

MODE	LATERAL	VERTICAL
Enroute	2.0 nm	1500 ft
Terminal	1.0 nm	492 ft
Approach	2 degrees to 0.3nm, then linear NOTE: (0.3 nm is the default and may be designated by database.)	GPA/4

SECTION IV - NORMAL PROCEDURES (CONTINUED)

4. AIRCRAFT INTEGRATION

b. Enroute and Terminal Area Flight Director and Autopilot Operation

Each FMS may be selected for display on the onside ADI/HSI by means of the VHF NAV/LRN navigation transfer switches. The #1 UNS-1E FMS will supply steering information to the Flight Director by selection of the NAV button on the Flight Guidance Panel. When the FMS is selected for display on the HSI, the coursed pointer will be driven by the FMS to the desired track. The HSI will display cross track error, To/From, FMS Nav valid flag and FMS distance. With a valid VNAV leg defined on the FMS, vertical deviation will be displayed and may be coupled using the VNAV button on the flight guidance panel.

c. Approach Operation

ILS, LOC or BC approaches can be retrieved from the FMS database and linked to the flight plan, but cannot be armed or activated as FMS approaches. The FMS can be used to provide navigation up to the final approach course, at which point the flight director navigation source must be changed to display raw ILS data, which can then be coupled to the Flight Guidance System. **APPR** annunciators will illuminate whenever FMS Approach Mode is active.

NOTE: GPS will remain selected for GPS and GPS-overlay approved approaches from the navigation database. GPS will automatically be deselected for non-GPS approaches. (Refer to Operator's Manual, Section III, Approach Procedures).

Lateral Approaches without using baro-VNAV

GPS, NDB, RNAV, VOR, VOR-DME and VFR approaches may be linked into the flight plan and then laterally coupled to the Flight Director/Autopilot. The pilot should select NAV on the Flight Guidance Panel.

Lateral Approaches using baro-VNAV

GPS, NDB, RNAV, VOR, VOR-DME and VFR approaches may be linked into the flight plan and then laterally and vertically coupled to the Flight Director/Autopilot. The pilot should select NAV on the Flight Guidance Panel until the FMS Approach mode activates. When FMS approach modes becomes active, select APPR on the flight guidance panel.

SECTION V - ABNORMAL PROCEDURES

- 1. If 'GPS RAIM' becomes unavailable (as indicated by an amber MSG and INTEG annunciation), the pilot should monitor position by cross-reference to other navigation sources as necessary.
- 2. Should an FMS system component fail, in most cases the CDU will go blank or the MSG light will annunciate. Depressing the CDU MSG key will display the Message Page, which will indicate the component which has failed.
- 3. If sensor information is intermittent or lost, utilize remaining operational navigation equipment as required.
- 4. If VNAV information is intermittent or lost, disengage VNAV and use altimeter for vertical reference.
- 5. Should the Steering Interface Unit (SIU) fail or a power loss is detected, the SIU Fail annunciator will illuminate. If the flight director / autopilot (FD/AP) is engaged under this circumstance, the FD/AP will revert to Heading mode. When power is restored to the SIU, the FD/AP will revert to level mode.

If the SIU circuit breaker is pulled, FD/AP operation with the UNS-1E reverts to Left/Right CDI needle steering and lateral roll steering is not used. When power is reapplied to the SIU with the FD/AP engaged and the UNS-1E displayed on the HSI, the FD/AP will revert to level mode. NAV or HDG mode can then be selected.

Should a UNS-1E invalid occur with the FMS coupled to the FD/AP, the autopilot will automatically revert to Level Mode and the NAV CAPT light will begin to flash. The autopilot will remain in this condition until the pilot takes appropriate action (such as selecting HDG mode) which clears the flashing NAV CAPT light.

6. The FMS and associated components are protected by the following circuit breakers:

C/B Name	Amps	Buss	Location
FMS 1	5	L ESS A 28VDC BUS	PILOT CB PANEL
FMS 1 REF	1	L 26VAC BUS	PILOT CB PANEL
FMS 2	5	R ESS A 28VDC BUS	COPILOT CB PANEL
FMS 2 REF	1	R 26VAC BUS	COPILOT CB PANEL
SSDTU	1	R 28VDC MAIN BUS	COPILOT CB PANEL

SECTION VI - PERFORMANCE DATA

No change to FAA Approved Airplane Flight Manual.

21. Approval/Certificate No.: 5. Work Order/Contract/Invoice Number: Status/Work: Other regulation specified in Block 13 3. Form Tracking Number: 29019-3.2.3 **WTXR173J** TESTED 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, 29019 Top charged, performed capacity check. Battery passed capacity check at 100%. Recharged IAW Concarde CMM 24-30-71, DWG. NO. 5-0171, Rev M, Dated. 23. Date (m/d/y): 12. Serial/Batch Number: 40455637 AUTHORIZED RELEASE CERTIFICATE the items are approved for return to service. FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 10. Quantity. 20. Authorized Signature: 796 Heritage Way Grand Junction, CO 81506 Eligibility:' TVLS 1831 CRS: WTXR173J 19. 14. Certifies the items identified above were manufactured in conformity to 16. Approval/Authorization No.: o, Deproyed design data and are in condition for safe operated Part Number: RG-380E/44 18. Date: Non-approved design data specified in Block 13 œί 4. Organization Name and Address: Description: **Ational Aviation** Battery FAA/UNITED STATES 17. Name (Typed per rinted) 15. Authorized Signature: Authority/Country: 1. Approvir. 13. Remarks: Mar. 15/2012. 6. Item:

country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. authority of the country specified in Block1.

ADN 24, 2013

Mark Neverdah

User/Installer Responsibilities

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.

21. Approval/Certificate No.: 5. Work Order/Contract/Invoice Number: Status/Work: ☐ Other regulation specified in Block 13 Apr 24, 2013 3. Form Tracking No., iber: 29019-3,2,2 **WTXR173J** TESTED 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, 29019 Top charged, performed capacity check. Battery passed capacity check at 100%. Recharged IAW Concorde CMM 24-30-71, DWG. NO. 5-0171, Rev M, Dated, 23. Date (m/d/y): 12 Serial/Batch Number: the items are approved for return to service. **AUTHORIZED RELEASE CERTIFICATE** □ 14 CFR 43.9 Return to Service ÷. FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG Mark Neverdah May New Jah. 10. Quantity: 20. Authorized Signature: User/Installer Responsibilities Grand Junction, CO 81506 Eligibility:* ΥX * 1500 CRS: WTXR173J 796 Heritage Way 19. 14. Certifies the items identified above were manufactured in conformity to 16. Approval/Authorization No.: တ် D Approved design data and are in condition for safe operation Part Number: RG-380E/44 18. Date: Non-approved design data specified in Block 13 œ 4. Organization Name and Address: Description: 1. Approvir. ational Aviation Battery FAA/UNITED STATES 17. Name (Typed par rinted) 15. Authorized Signature: Authority/Country: Κ. 13. Remarks: Mar. 15/2012. 6. Item:

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 Block1. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

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.

1. Approving vational Aviation	I GERGIALITY		од оддах комунуй е формовором дето одла на селитаније подужено поливаније пред од одлага једен вершто од од од 18 году и градого (од 1800) од од одражено пред од	delika delegiseria erre erre erre erre erre erre erre	3	
Authority/Country:	AUTHORIZED	I HOKIZED RELEASE CERTIFICATE	LIFICATE		3. Form Tracking Number:	Number:
	FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	WORTHINESS APP	ROVAL TAG		R10	R10-07012:
4. Organization Name and Address:	AMETEK B&S Aircraft Parts & Accessories 1414 South Mosley, Wichita, KS 67211-3398, USA. Certificate Number NF2R0281	SA. Certificate Numb	er NEORO281		5. Work Order/Contract/Invoice	ntract/Invoice
6. Item: 7. Description:	8. Part Number:	9. Eligibility: * 10	-	11 Serial/Ratch Number		-0/01Z
1 BOOST PUMP	RR12670F 2380060-29			B-4094		OVERHAULED
13. Remarks:				A STATEMENT OF THE STAT		
Approval for Return to Service. Overhauled, reference C Accessories certifies that the work specified in Blocks 1 the component is considered ready for release to service order R10-07012.	ice. Overhauled, reference Crane Lear Ros work specified in Blocks 12 and 13 was ready for release to service under EASA	Crane Lear Romec manual 28-16-05, Rev. 2, 1/12/1995. Ametek B&S Aircraft Parts & 2 and 13 was carried out in accordance with EASA Part-145 and in respect to that work, under EASA Part-145 Approval Number: EASA.145.4228. Full details held on work	5-05, Rev. 2, 1/ ordance with E./ il Number: EA\$	12/1995. Amet ASA Part-145 a SA.145.4228. F	ek B&S Aircraft and in respect to t oll details held or	Parts & hat work, n work
14. Certifies the items identified above were manufactured in conformity to:	e were manufactured in conformity to:	10 MIA CED 43			es met 14 1400 miles de la préfessió des manages es éstados par de colongen metro con una accasa	
Approved design data and are in condition for safe operation Non-approved design data specified in Block 13	e in condition for safe operation secified in Block 13	Certifies that unland described in Federal Regulation return to service.	Certifies that unless otherwise speciand described in Block 13 was acconfederal Regulations, part 43 and instrum to service.	ce \times Other re sciffed in Block 13 complished in acc in respect to that w	• MITA CFR 43.9 Keturn to Service Millian Control 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.	Block 13 in Block 12 4, Code of proved for
15. Authorized Signature:	16. Approval/Authorization Number:	20. Authorized Signature:	gnature:	21.	21. Approval/Certificate Number:	e Number:
12. 61		Sup	849/ W		NE2R028L	
17. reame (1) year of Printed):	18. Date (m/d/y):	22. Name (Psyped or Printed):	or Printed):	23.	23. Date (m/d/y):	
		Bryson L. Voth	oth		Dec/10/2010	
	User/Installer Responsibilities	onsibilities				

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 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 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 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. with the national regulations by the user/installer before the aircraft may be flown.

AEROSPACE & DEFENSE

TEK B & S Aircraft Parts & Accessories 1414 SOUTH MOSLEY • WICHITA, KANSAS 67211-3387

FAA Certificate No. NE2R028L - Accessory Overhaul 316-264-2397 800-835-2961 fax 316-264-7898

WEST STAR AVIATION INC.

WES033 GRAN

Customer Number

Ship Code

Work Order No. | R 207012

Issued.: 11/11/10

Invoice No:

Sales Ord#: Sales Amt.:

Shipped...:

By Bill Pitz Request:

mber Serial Number	B-4094	Int#			Re Lesson
Manufacturer's Part Number	RR12670F		4583	Work Performed	R. Lerence
Customer's Part Number	2380060-29	Wanufactures	ESTROMEC		
Packing Slip/Shipping n Authorization No. Itm		Oty Prod Code Dep	1 3181 2		
Purchase Order Number In	POG10-11225 2	Secription		Siscrepancy or Reason for Return	
Received Via	UPS GROUND N Prepaid	Ď	BOOST PUMP	Disc	

2020 Rev. 2, 1-12-95, したナイスところ 8-16-05 CVECTORLIED Manual Overhaul & Certify [X] Functional Test Only [] Repair and Certify [] Accident Unit [Market: Business Jet (A) Eval Only.... Third Party Proc.. [] Merchandise Return.. [] Non-Certified Work [] Modify [] Special Work Instructions Not Outlined Above Work Instructions Repair Cost Estimate Required? Yes [X] No []

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Namedale Daint Coming all	Initials	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Process	7 · · · · · · · · · · · · · · · · · · ·	֖֖֓֞֞֟ ֖֖֓֓	G	
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	Date	,)			
			٥	22.00	5.00			*******
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Commetator Deeds terried doen	م م		3,300	13.60	6.25	in the second	an aminipullanensee	
Rot. Sent weeds Lapped.	Date	**CONTON NA PARA	3100	36 7 00 B) 0018	26.0		Минто н доруддар	
End Bells Checked AK.		 On the Water Marketon (*) - Graph Standard Contract C	THE CONTRACT OF THE CONTRACT O	00.0	3		-	~ ~~~
	11-19-10	R g S	رم رم	11-19-10 Ran 1/2 hr. No Leaks	المعلا	i.		

01-01-6

Master Technician

Certificate Number



46.24

3260 East Universal Way, Tucson, Arizona 85756 USA Tel: (520) 295-2300 (800) 321-5253 Fax: (520) 295-2395 www.uasc.com

Page 1 of 2

Order Number:

009670

Ship Date: 04/12/2013

Customer Number:

Packing Slip Number:

009670-001

Sold To:

WEST STAR AVIATION 790 HERITAGE WAY GRAND JUNCTION, CO 815068643 HSA

Ship To:

W01310

WEST STAR AVIATION 790 HERITAGE WAY

GRAND JUNCTION, CO 815068643

USA

Attn: WO 29019

للشاريات ووياروها والوادية والمعاش وساهيطها للمسادات Order Comments:

814-606

Customer PO Number: 1 POG13-05399 Requested Shipper: Customer PO Date: , 4/11/2013 Written By: UPS NEXT DAY AIR COL Acct#: 814-606 Item PO --DESCRIPTION SHIP DATE SERIAL NUMBERS QTY B/O 001 3 CONFIG MODULE, UNS-1C 4/15/2013 6320, 6321 CONFIG MODULE, UNS-1C VC: N 002 4 SOLID STATE DTU, BLACK 1408-00-2 4/15/2013 2312 SOLID STATE DTU, BLACK ** GNU GENERAL PUBLIC LICENSE FOR SSDTU FOR END CUSTOMER USE ** VC: N. SCN: 10.1 003 5 SOLID STATE DTU INSTALL KIT K12079-1 4/15/2013 B130300341 SOLID STATE DTU INSTALL KIT These materials have been insperted and Found to conform with the requirements of VC: N 14CFR §145.211 (c)(1)(i) Receiving Inspector_ West Star Aviation, Inc. CRS WTXR173J Date Shipping Details TOTAL NUMBER OF PACKED BY: WAYBILL / SHIPPING ORDER TYPE **PACKAGES** WEIGHT TRACKING NUMBER CHARGES CS-NEW SALE tharrison 17 lb N/A CS

Export Content: (Where Applicable) - These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations, Diversion contrary to U.S. law is prohibited."

CERTIFICATE OF CONFORMANCE

Universal Avionics Systems Corporation hereby certifies that the items(s) or services listed hereon was produced and or preformed in accordance with regulatory and customer requirements as applicable. Data to support conformance to said requirements are maintained on file at Universal Avionics Systems Corporation.

FRM-MKT-06.03 REV 00



3260 East Universal Way, Tucson, Arizona 85756 USA Tel: (520) 295-2300 (800) 321-5253 Fax: (520) 295-2395

www.uasc.com

Page 2 of 2

Order Number:

: 009670

Ship Date: 04/12/2013

Customer Number:

Packing Slip Number:

009670-001

Sold To:

WEST STAR AVIATION 790 HERITAGE WAY GRAND JUNCTION, CO 815068643 USA

Ship To:

W01310

WEST STAR AVIATION 790 HERITAGE WAY

GRAND JUNCTION, CQ 815068643

USA

Attn: WO 29019

	в о .				**************************************	1	
ltem #	ĽN#	DESCRIPT	ION	OTY.	SHIP DATE	QTY B/O	SERIAL NUMBERS
007	6	P3 CONNECTOR (AMPHENOLIBE	ENDIX) 83002613	(2)	4/15/2013	0	
		P3 CONNECTOR (AMPHENOL/BI	ENDIX) Cust Part No. MS27	7473T24F6	1SD		
		VC: N					
800	7	GPS ANT,5V,(AEROANTENNA)	10706	Ø	4/15/2013	0	(16291, 16292)
		GPS ANT,5V,(AEROANTENNA)		岁			
		VC: N					
09		END CUSTOMER PKG, SCN 803/	903 P12054	(1)	4/15/2013	0	
		END CUSTOMER PKG, SCN 803/	903				
		VC: N	· 				
10	6	BACKSHELL	83001992	(2)	4/15/2013	0	
		BACKSHELL Cust Part No. M85049	9/49-2S24N				
		VC: N		····			

	- · · · · · ·		Shippi	ng Details	•	
NUMBER OF	TOTAL	WAYBILL /	SHIPPING		PACKED BY:	ORDER TYPE
PACKAGES	WEIGHT	TRACKING NUMBER	CHARGES		tharrison	CS-NEW SALE
1	17 lb		N/A		W.B. 113011	CS

Export Content: (Where Applicable) -"These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations, Diversion contrary to U.S. law is prohibited."

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FRM-MKT-06.03 REV 00

po [[c]3, Date:(m/d/y)]。		22. Name (Typed or Printed):	22. Name (1	18. Date: (m/d/y) NOV 09, 2012		17. Name (Typed or Printed): BENJAMIN RUBENI	17. I
21. Approval/Certificate No:		20. Authorized Signature:	20. Authoriz 版 : ,	16. Approval/Authorization No.: DMIR605926NM		Authorized Signature:	15. .\
specified in block-13, the work identified in block-12 and described in accordance with title 14, Code of Federal Regulations; part 43 and in are approved for return to service.	specified in block 13, the work accordance with title 14. Code accordance with title 16. Servi	Certifies that unless otherwise block 13 was accomplished in respect to that work; the items	Certifies that block 13 was respect to the	operation.	a condition for safe ed In Block 13.	Approved design data and are in a condition for safe operation Non-approved design data specified in Block 13.	
to Service O' Other regulation specified in Block 13	a Service o Other res	o 14.CFR 43.9 Rejum I	19 0 14	d in conformity to:	were manufacture	14. Certifies the items identified above were manufactured in conformity to	14. C
				13. Remarks: AIRWORTHINESS APPROVAL- PARTS, TSO C144. FOR DOMESTIC SHIPMENT	ARTS, TSO C1	13. Remarks: VORTHINESS APPROVAL-F	AIRV
NEW	16291	_	N/A	AT575-126UAW-TNCF-000-RG-30-NM	AT575-1	Antenna	->
12. Status/Work:	11. Serial / Batch Number:	10. Quantity:	9. Eligibility: •	Part Number:	8. Part	7. Description:	6. Item
Work Order/Contract/Invoice Number: AAT PS # 56881		aeroantenna.c	E mail: qa@;	AeroAntenna Technology, Inc. PT1484NM 20732 Lassen Street. Chatsworth, CA 91311. E mail: qa@aeroantenna.com	AeroAntenni 0732 Lassen S	Organization Name and Address: 2	4. Or
		PROVAL TAG	RTHINESS AF	FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		FAA / United States	
12-31600		CERTIF	LEASE (AUTHORIZED RELEASE CERTIFICATE		Authority/Country:	
3. System Tracking Ref. No.:					2.	Approving National Aviation	. •

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.

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Approving National Aviation			1			3. System Tracking Ref. No.:
Authority/Country:	AUTHORI	ZED REL	EASE C	ERTIF	[CATE	12-31601
FAA / United States	FAA Form	8130-3, AIRWOR	THINESS APF	ROVAL TAG		
ganization Name and Address:	AeroAntenna Technology,	Inc. PT1484NM				Work Order/Contract/Invoice Number:
20	732 Lassen Street. Chatsw	orth, CA 91311. 1	E mail: qa@a∈	eroantenna.co		AAT PS # 56881
7. Description:	3. Part Number:		9. Eligibility:	10. Quantity:	11. Serial / Batch Number:	er: 12. Status/Work:
Antenna	AT575-126UAW-TNCF-0 REF, Customer P/N: 107	00-RG-30-NM 706	N/A		16292	NEW
ertifies the items identified above value. Approved design data and are in a	were manufactured in conformity to: condition for safe operation.		Certifles that u	FR 43.9 Return to	o Service	block 13 the work identified in block 12 and described in
Approved design data and are in a Non-approved design data specifie	condition for safe operation. ed In Block 13.		block 13 was respect to that	work, the items/a	specified in block 13, the vaccordance with title 14. C	work identified in block 12 and described in bode of Federal Regulations bart 43 and in service
Authorized Signature:	16. Approv. DMIR6059	al/Authorization No.: 26NM	20. Authorize	Signature:		21: Approval/Certificate No.
Name (Typed or Printed) : JJAMIN RUBENI	18. Date. (n NOV 09, 20	n/d/y) 012	22. Name (Ty	ped or Printed):		23. Date: (m/d/y)
BEN 15. 14. 0	Approving National Aviation Authority/Country: FAA / United States ganization Name and Address: 7. Description: Antenna Antenna Antenna 13. Remarks: WORTHINESS APPROVAL- Pertifies the items identified above a personal design data and are in Non-approved design data and are in Non-approved design data spectory authorized Signature: Non-approved or Printed): JAMIN RUBENI			AUTHORIZED RELISES FAA Form 8130-3, AIRWORTI AeroAntenna Technology, Inc. PT1484NM 20732 Lassen Street. Chatsworth, CA 91311. E 8. Part Number: AT575-126UAW-TNCF-000-RG-30-NM REF. Customer P/N: 10706 - PARTS. TSO C144. FOR DOMESTIC SHIPMENT in a condition for safe operation. acified In Block 13. 16. Approval/Authorization No.: DMIR605926NM 18. Date: (m/d/y) NOV 09, 2012	AUTHORIZED RELISES FAA Form 8130-3, AIRWORTI AeroAntenna Technology, Inc. PT1484NM 20732 Lassen Street. Chatsworth, CA 91311. E 8. Part Number: AT575-126UAW-TNCF-000-RG-30-NM REF. Customer P/N: 10706 - PARTS. TSO C144. FOR DOMESTIC SHIPMENT in a condition for safe operation. acified In Block 13. 16. Approval/Authorization No.: DMIR605926NM 18. Date: (m/d/y) NOV 09, 2012	AUTHORIZED RELEASE CERTIFICAT S FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG AeroAntenna Technology, Inc. PT1484NM 20732 Lassen Street. Chatsworth, CA 91311. E mail: qa@aeroantenna.com 8. Part Number: 9. Eligibility: 10. Quantity: 11. Serial REF. Customer P/N: 10706 - PARTS. TSO C144. FOR DOMESTIC SHIPMENT - PARTS. TSO

User/Installer Responsibilities

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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.

Crystal Martinez

From: Sent:

To: Subject:

Crystal Martinez Friday, April 12, 2013 12:51 PM John Bauer; Craig Stout Revision of SOF N22MS

NOTES	
WRKSCOPE	Erin AVIONICS INSTALL - Remove UNS- IMs and install UNS-1Es
DONE RESEARCHER	Erin
DONE	0
TRACKER NEEDED	!-
QAI	Craig
ED	2013
REVIS	4/12/2013
PART REVISED QAI	0
	0
	0
	0
	0
	0
EL- DUEIN DUEOUT LEAD WO 135	0

1.0	r
VOTES	
f	Oue items, battery items
RESEARCHER	Due ite
DONE	0
TRACKER NEEDED	7
QAI	913 John
REVISED	4/16/2013
PART 135 REVISED	0 4/16/20
ART 135 REVIS	0 4/16/20
LEAD WO PART 135 REVISED	0 4/16/20
DUEOUT LEAD WO PART 135 REVISED	3 Jason 29019 0 4/16/20
DUEIN DUEOUT LEAD WO PART 135 REVISED	3 Jason 29019 0 4/16/20
SN DUEIN DUEOUT LEAD WO	9 4/16/2013 5/3/2013 Jason 29019 0 4/16/20
T LEAD WO	9 4/16/2013 5/3/2013 Jason 29019 0 4/16/20

Crystal Martinez

QA Inspector Admin Assistant
West Star Aviation - Grand Junction
970-243-7500 - Phone
(800) 255-4193 - Toll Free

http://www.weststaraviation.com



13. Remarks:	ָר <u>הַפּ</u> ּע		6. Item: 7. Description:	T. Organization static wild Address:		FAAVUNITED STATES	EAA/INITED STATES	Authority/Country:	1. Approving National Aviation	
	1.1.7-74-7.1.07		8 Part Number	3260 E. Universal Way Tucson, AZ 85756	Universal Avienias Contents Con-	FAA Form 8130	AUTHORIZE		2.	
	N/A	9. Eligibility*		Repair Station Number: UZNR483N	VALOUTINE	FAA Form 8130-3 AIRWORTHINESS APPROVAL TAC	AUTHORIZED RELEASE CERTIFI			
	_	10. Quantity: 11. Serial/Batch Number:		ımber:	AU	~ /	FICATE			
	1186	ial/Batch Number:		5. Work Order, Contract, or Invoice Number: 12R92356			12R92356	3. Form Tracking Number:		ことろか
	MODIFIED	12. Status/Work:	The state of the s	ontract, or Invoice 2356		(356	Number:		

Inspected, modified, tested, and returned to service in accordance with Universal Avionics maintenance manual 34-60-28_UNS-1E_UNS-1C+_FMS Rev IR Date

Incorporated Service Bulletin(s): 1XXX.XX.()-34-3392 Rev IR Date 05/18/10

SCN 803.2

RETURN TO SERVICE

A detailed description of work performed is documented within the work order identified in block 5 of this form

Person who performed final acceptance testing for above described work NICK TREMBLAY. Acceptance testing was performed in accordance with above referenced maintenance manual.

Date of completion: 05/03/13.

Universal Avionics 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 145 EAA

	15. Date (m/dy):		15. Authorized Signature: 16. FAA Authorization No.: 20. Authorized Signature:	 □ Approved design data and are in a condition for safe operation. □ Non-approved design data specified in Block 13. 	14. Certifies the items identified above were manufactured in conformity to:
VINCENT PINEDO	22. Name (Typed or Printed):		20. Authorized Signature:	otherwise specified Block 13 was accor ulations, part 43 an co service.	
MAY/03/2013	23. Date (m/d/y):	UZNR483N	21. Approval/Certificate No.:	➤ Other regulation specified in Block 13 in Block 13, the work identified in Block mplished in accordance with Title 14, id in respect to that work, the items are	American construction and the construction of

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

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 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

national regulations by the user/installer before the aircraft may be flown 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

N22175

1. Approving National Aviation	2.				Ĭ
Authority/Country:	AITHODI7E			3. Form	Number:
1	FAA Form 8130-3	FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	TAG	13R95669	369
* Organization Dame and Address:	Orniversal Avionics Systems Corporation 3260 E. Universal Way Tucson, AZ 85756	oration Repair Station Number: UZNR483N	lumber:	5. Work Order, Contract, or Invoice Number: 13R95669	ontract, or Invoice 5669
Item: 7. D	8. Part Number:	9. Eligibility*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
I T M S	2017-42-211	N/A			REPAIRED
13. Remarks: RETURN TO SERVICE Inspected, repaired, tested, 06/17/02.	and returned to service in accordar	13. Remarks: RETURN TO SERVICE Inspected, repaired, tested, and returned to service in accordance with Universal Avionics maintenance ma 06/17/02.	manual 34-60-2	nual 34-60-28_UNS-1E_UNS-1C+_FMS Rev IR Date	Rev IR Date
SCN 803.2 A detailed description of wor	k performed is documented within i	SCN 803.2 A detailed description of work performed is documented within the work order identified in block 5 of this form.	form.		
Person who performed final a Acceptance testing was perfo	Person who performed final acceptance testing for above described work $ \underline{\sf NICK} $	bed work <u>NICK_TREMBLAY.</u> ferenced maintenance manual.	Date of comple	ite of completion: 05/03/13.	THE WATER STATE ST
Universal Avionics certifies the component is considered real	hat the work specified in block 12/1 ady for release to service under EA:	Universal Avionics certifies that the work specified in block 12/13 was carried out in accordance with EASA component is considered ready for release to service under EASA Part-145 Approval Number: EASA.145.50	Part-145)49.	Part-145 and in respect to that work the 049.	
	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 Serv Certifies that unless otherwise 12 and described in Block 13 Code of Federal Regulations, approved for return to service	Service X wise specified in E 13 was accomplis ns, part 43 and in vice.	☑ 14 CFR 43.9 Return to Service ☑ Other regulation 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.	nek 13 n Block 14.
15. Authorized Signature:	16. FAA Authorization	ization No.: 20. Authorized Signature:	1	21. Approva	21. Approval/Certificate No.: UZNR483N
to came (1) per of timed):	is. Date (m/dy):	22. Name (Exped or Printed): VINCENT	r PINEDO	23. Date (m/d/y): MAY/00	ate (m/d/y): MAY/03/2013
		User/Installer Responsibilities			
It is important to understand that the exist Where the user/installer performs work in Block I, it is essential that the user/install I.	tence of this document alone does not autor accordance with the national regulations o ler ensures that his/her airworthiness author	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 I, 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 I.	ponent/assembly. orthiness authority o nirworthiness author	f the country specified in ity of the country specified in Bloo	€.
Statements in Blocks 14 and 19 do not constitute installation certification. national regulations by the user/installer before the aircraft may be flown.	-	In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the	stallation certificatio	n issued in accordance with the	

Arizona Division

3260 East Universal Way, Tucson, Arizona 85756 U.S.A. Tel: (520) 295-2300 (800) 321-5253

Fax: (520) 295-2395

WORKORDER

13R95669

Repair Station UZNR483N

Claim Date	: 03/14/2013	Page	: 1
Claim No	: 13495669	Ack. No	: 1352483
Div-Plant	: 02-20		. 1002400
Received From	: D00040 DUNCAN AVIATION, INC LINCOLN	Phone	*
Ship To	: N/A: UASC PROPERTY, SHIP TO UNKNOWN	Phone	•
Part No	: 2017-41-211	Part Serial	: 196
Part Descr	: 1E FMS, GPS, VID/GRA, ANALOG, GRAY	Warranty No	: 0140530
Reason	: CE WARRANTY EXCHANGE	Expires	: 03/01/2014
A/C Serial	•	Customer PO	: PN93HZ
Registration	:	Type	• 1455112
A/C Descr	:	-11-3	•

NOTE: THIS IS AN ELECTRONIC WORK ORDER. ALL NAMES AND STAMP NUMBERS YOU SEE ON THIS DOCUMENT WERE APPLIED ELECTRONICALLY, AND THEN

ACKNOWLEDGED BY THE INDIVIDUALS REPRESENTED.

WORK ORDER SUMMARY

> CUST REPORTED: GPS / GNSS DISCREPANCY REPAIR ACTION: BOARD REMOVED AND REPLACED CUST REPORTED: INTERMITTENT OPERATION REPAIR ACTION: BOARD REMOVED AND REPLACED

OUTGOING CONFIGURATI	Table 1 April
PART NO:	2017-42-211
SERIAL NO:	7196
SCN	² 803.2
Display (CDU)	10.6
AUX	1.6
ANALOG	2.0
Bootstrap	10.0
ARINC	2.1
ASCB	≥n/a
GNSS	11.0
MODS.	1-12-

WORK ORDER DETAIL

> >CUST REPORTED GPS / GNSS DISCREPANCY >CUST REPORTED INTERMITTENT OPERATION</br> FAILURE.

SESS	EMPLOYEE NAME WORK PERFORMED	DATE	HOURS

INCOMING CONFIGURATION	
SCN	803.2
Display (CDU)	10.6
AUX	1.6
ANALOG	2.0
Bootstrap	10.0
ARINC	2.1
ASCB	n/a
GNSS	11.0
MODS.	1-12

LEON ESTHER INC INSP AT 1502 BADLY SCRATCHED UNIT ALL OVER. CONSISTENT WITH INST/REM. LIGHTLY DIRTY UNIT. SLIGHTLY

Fax: (520) 295-2395

Arizona Division

WORKORDER

13R95669

Repair Station UZNR483N

		Repair Station UZNR483N		
	Date	: 03/14/2013 Page	: 2	
Claim	No	: 13495669 Ack. No	: 1352483	
Div-P	lant	: 02-20	1332133	
Recei	ved From	: D00040 DUNCAN AVIATION, INC LINCOLN Phone		
Ship	То	: N/A: UASC PROPERTY, SHIP TO UNKNOWN Phone	:	
Part	No			
		1010 001101		
			: 0140530	
Reason		: CE WARRANTY EXCHANGE Expires	: 03/01/2014	
A/C S		: Customer PO	: PN93HZ	
		: Type	:	
A/C D	escr	;		
	CHIPPED	PAINT ON FACEPLATE. EXTREMELY DIRTY LENS. MARKER		
	WRITING	ON TOP OF UNIT. SLIGHTLY DIRTY LENS.		
		CE RCVD WITH QUALITY SEALS INTACT.		
002	TREMBLA	The state of the s	05 (04 (04 -	
302		VERIFIED	05/01/2013	0.10
000		IL-REPLACE GNSS BOARD TO REPAIR		
003	TREMBLA		05/01/2013	0.10
	REPLACE	D GNSS BOARD TO REPAIR GPS ISSUES		
	EXCHANG!	E UNIT-CHANGE FACEPLATE TO BLACK		
	CHECKED	BATTERIES-(CPU-3.64V / GNSS 3.112V)		
		HAS 803.2 SCN \\		
	CLEARED	RAM		
	LOADED (CURRENT DATABASES (30-MAY-2013)		
	INSPECT	ED UNIT, NO OTHER DEFECTS FOUND.		
	AT.L. BOAT	RDS ARE TO CURRENT REVS.		
		PART: GNSS BOARD		
		02116075D S/N: A030100171 W/O # 13R95669-001		
		LAUSES FAIL		
		DD PART: GNSS BOARD		
		02116075F S/N: A060200706 \ \ \ \ \ \ \ #/ 13R96378-004		
		PART: FRONT PANEL		
	(01017077-02 S/N: 7017-L\$I W/O # 13R95669-002		
	F	REMOVED TO RECONFIG		
	INSTALLE	ID PART: FRONT PANEL		
		01017077-04 S/N: 1313-LSI W/O # 10R72933-003		
004	TREMBLAY		25/24/254	
		D UNIT TO: 2017-42-211	05/01/2013	0.10
005	TREMBLAY			
000			05/01/2013	2.00
	IN AUDIT	ION TO THE WORK DESCRIBED ABOVE, THE FOLLOWING		
		LES WERE INCLUDED:		
		BRATION MATERIAL		
	- FACEPL	ATE GASKET		
	VERIFIED	UNIT CIRCUIT BOARD CONFIGURATION.		
	THIS APP	LIANCE WAS REPAIRED IN ACCORDANCE WITH UNIVERSAL		
	AVIONICS	MAINTENANCE MANUAL 34-60-28 UNS-1E UNS-1C+ FMS.		
	ANY OTHE	R MAINTENANCE ACTIONS THAT WERE NECESSARY ARE		
		IN THIS WORK ORDER.		
		In This Hotal Oldbert.		
	DASSED F	INAL ACCEPTANCE TESTING IN ACCORDANCE WITH ABOVE		
	DEFERENCE	TO MAINTENANCE RESIDENT IN ACCORDANCE WITH ABOVE		
	REFERENC	ED MAINTENANCE MANUAL.		
	NAV DATA	BASE EXP DATE: 05/30/13 REGION: WORLDWIDE 2000'		
006	VALENTIN		05/02/2013	0.10
	CERTIFIE	D REPAIRMAN SUPERVISOR MAINTENANCE.	00/02/2013	0.10
007		VINCENT	06/03/2012	0.10
		NTENANCE INSPECTION PERFORMED.	05/03/2013	0.10
		E PASSED INSP IAW INSPECTION PROCEDURES REPORT # 20430.		
	TMGDEGET	o roose that the thorection procedures report # 20430.		
	INSPECTI	ON COMPLETED AT 1053.		
		COMMITATION OF ANDRON		

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Arizona Division

WORKORDER

13R95669

Repair Station UZNR483N

				Repa.	LF St	ation UZNE	(483N					
Claim		:	03/14/2013					Page		:	3	
${\tt Claim}$	No	;	13495669					Ack. N	0	:	1352483	
Div-Pl	ant	:	02-20							·	1302103	
Receiv	ed From	:	D00040 DUNCAN A	VIATION, I	NC	LINCOLN		Phone		:		
Ship T			N/A: UASC PROPE					Phone		:		
Part N	0		2017-41-211					Part S	erial	:	196	
Part D	escr	:	1E FMS, GPS, VI	D/GRA, ANA	LOG,	GRAY		Warran	tv No		0140530	
Reason		;	CE WARRANTY EXC					Expire	s		03/01/2014	
A/C Se	rial	:			******************************			Custom	er PO		PN93HZ	
	ration	:						Туре		:		
A/C De		:										
008	PINEDO		VINCENT					***************************************			05/03/2013	0.10
			PECTION PERFORME		į.							
	APPLIAN	CE	PASSED INSP IAW	INSPECTION	V PRO	CEDURES RE	EPORT #	20430.				
	THIS AR	TI	CLE IS AIRWORTHY	WITH RESP	ECT T	O THE WORK	ζ					
	PERFORM	ED	•									
Tech	TREMBLA	Y	NICK				TECH S	TAMP# 6	5 Date		05/03/2013	
Cert							19					
Rpmn							4					
Supv				No North State		Salar Salar	<i>Z</i> .					
Maint	VALENTI	NE	JOHN	CERT	RPMN	#3535480			Date		05/03/2013	
				X		\sim						
Post												
Maint				/								
Insp	PINEDO	A1.	VINCENT	į.			INSP S	TAMP# 4	6 Date		05/03/2013	
a .			The control of the second of the control of the con						The state of the s			
Cert												
Rpmn					Same of	$\mathcal{F} = \mathcal{F}$						
Perf												
Final				/>								
Insp	PINEDO		VINCENT	∕ ∕ CÉRT	RPMN.	#3564481\			Date		05/03/2013	
	The name	e i	dentified aboye	is the ins	pecto	or attesti	ng to t	he prope	er			
	final a	cce	ptance condition	n and airwo	rthir	nes of thi	s`produ	ct IAW				
	inspect.	ion	procedure repor	ct # 20430.	The	e above el	ectroni	signat	ture			
	can be t	zor	ifed by evamining	or +50 9120	12 h		الفيد أتحيد لاداد					

can be verifed by examining the 8130-3 associated with this work

Arizona Division

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Fax: (520) 295-2395

12/13/2012 0.10

WORKORDER

12R92356

Repair S	Station	UZNR483N
----------	---------	----------

Claim Date	: 11/07/2	012	Page	•	1
Claim No	: 1249235	6	Ack. No	•	1259865
Div-Plant	: 02-20			•	120000
Received From	: T03260	TEKNON LLC	Phone	•	
Ship To	: N/A: UA	SC PROPERTY, SHIP TO UNKNOWN	Phone	:	
Part No	: 2017-41		Part Serial	•	1186
Part Descr	: 1E FMS,	GPS, VID/GRA, ALL DIGITAL, GRAY	Warranty No	:	1100
Reason		ANTY EXCHANGE	Expires	:	
A/C Serial	:		Customer PO	<u>:</u>	N395BC
Registration	:		Type	:	M333B0
A/C Descr	:		-15-3	•	

NOTE: THIS IS AN ELECTRONIC WORK ORDER. ALL NAMES AND STAMP NUMBERS YOU SEE ON THIS DOCUMENT WERE APPLIED ELECTRONICALLY, AND THEN

ACKNOWLEDGED BY THE INDIVIDUALS REPRESENTED.

WORK ORDER SUMMARY

CUST REPORTED: DISPLAY DISCREPANCY

REPAIR ACTION: BENCH CHECKED (LOANERS EXCHANGES ETC)

OUTGOING CONFIGURATION	The second second	1
OCIGOING CONFIGURATION		1
PART NO:	2017-	42-211
SERIAL NO:	1186	Lancer St.
SCN	803.2	
Display (CDU)	/10.5	
AUX	1.6	
ANALOG	2.0	
Bootstrap	10.0	
ARINC	2.1	
ASCB	N/A	
GNSS	\ 11.0\	And J
MODS.) 1-7, 9	,11,12

WORK ORDER DETAIL

>CUST REPORTED DISPLAY DISCREPANCY OISPLAY IS BAD.

REFERENCE	W/O	12K84594	AND	12R91086.

SESS	EMPLOYEE NAME WORK PERFORMED			DATE	HOURS
	INCOMING CONFIGURATION SCN	802.8			

Display (CDU)	10.5
AUX	1.6
ANALOG	N/A
Bootstrap	10.0
ARINC	2.1
ASCB	N/A
GNSS	11.0
MODS.	1-7,9,11,12

001 LEON ESTHER

INC INSP AT 1451. BADLY SCRATCHED UNIT ALL OVER. CONSISTENT WITH INST/REM. LIGHTLY DIRTY UNIT. SLIGHTLY DIRTY LENS/FACEPLATE. MINUTE CHIPPING OF PAINT ON FACEPLATE. BLK MARKER WRITING ON RT SIDE OF UNIT. TAPE RESIDUE ON TOP/RT SIDE OF UNIT.

05/02/2013

05/02/2013

0.10

2.00

005

006

TREMBLAY NICK

TREMBLAY

CONVERTED UNIT TO: 2017-42-211

NICK

IN ADDITION TO THE WORK DESCRIBED ABOVE, THE FOLLOWING

Arizona Division

WORKORDER

*	WORKORDER			
	12R92356			
	Repair Station UZNR483	3 n		
	: 11/07/2012	Page	: 2	
Claim No	: 12492356	Ack. No		
Div-Plant	: 02-20			
Received Fro	om : T03260 TEKNON LLC	Phone	:	
Ship To	: N/A: UASC PROPERTY, SHIP TO UNKNOWN	Phone	•	
Part No	: 2017-41-201	Part Serial	· 1186	
Part Descr	: 1E FMS, GPS, VID/GRA, ALL DIGITAL, GRAY		: 1100	
Reason	: CE WARRANTY EXCHANGE	Expires	•	
A/C Serial	•	Customer PO	· NOCEDO	
Registration	1 :	Type		
A/C Descr	· · · · · · · · · · · · · · · · · · ·	ıype	:	
-	IANCE RCVD WITH QUALITY SEALS INTACT.			
002 BUTL			0.4./0.0./0.04.0	
		1	04/30/2013	0.10
OMAN	VED PART: SUB-ASSY, GPS/GLONASS BD W/MOD SCN 10.			
	00211675-02 S/N: a060301399 W/O # 12R92356	6-001		
002 mpmw	REMOVED TO RECONFIG			
	BLAY NICK		05/01/2013	0.10
	WK NOT VERIFIED			
	D NOT DUPLICATE-DISPLAY IS FULLY OPERATIONAL.			
	BLAY NICK	.s'	05/01/2013	0.10
EXCH.	ANGE-CHANGE FACEPLATE TO BLACK-ADD ANALOG BOARD.	4		
CHEC	KED BATTERIES-(CPU-3.73V / GNSS-3.162V)			
LOAD	ED SCN 803.2			
	RED RAM			
LOADI	ED CURRENT DATABASES (30-MAY-2013)			
INSP	ECTED UNIT, "M2.1Q" SHOWN AS ARING SCN			
INST	EAD OF 2.1: REPLACED ARING BOARD TO REPAIR.			
	BOARDS ARE TO CURRENT REVS.	Production of the Contract of		
	And the second s	and the second s		
INCO	RPORATED SERVICE BULLETIN(S):	and the second desired to the second desired to the second of the second		
	.XX.()-34-3392			
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
TNST	ALLED PART: ANALOG BOARD			
10011	01017040E S/N: 94085-036 W/O # 12R91034-0	20.0		
TMCT	ALLED PART: GNSS BOARD	702		
THOIP				
TNOM	02116075D S/N: A021100109 W/O # 11R83069-0	104		
11/01/	ALLED PART: GPS MODULE W/HOLES GG12 BOARD			
BEMOL	01070914-03 S/N: GT3200345055 W/O # 12R88400	9-001		
REMOV	/ED PART: FRONT PANEL			
	01017077-02 S/N: 5309-LSI W/O # 12R92356	-004		
	REMOVED TO RECONFIG			
INSTA	ALLED PART: FRONT PANEL			
	01017077-04 S/N: 2252-LSI W/O # 13P00330	-000		
REMOV	MED PART: ANALOG BOARD			
	01017040e S/N: 94085-036 W/O # 12R91034-0	02		
	AC PITCH FAIL			
INSTA	ALLED PART: ANALOG BOARD			
	01017040G S/N: A061000317 W/O # 13R95745-0	01		
REMOV	ED PART: ARINC BOARD			
	01017030D S/N: A020500747 W/O # 12R92356-0	05		
	SOFTWARE SHOWS 'M2.1Q'	~ ~		
INSTA	LLED PART: ARINC BOARD			
	01017030D S/N: A010900610 W/O # 13R95234-00	Λ.4.		
005 TREMB	IAY NICK	V **	05 100 100 1	

CONTINUED ON NEXT PAGE

Arizona Division

3260 East Universal Way, Tucson, Arizona 85756 U.S.A. Tel: (520) 295-2300 (800) 321-5253

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WORKORDER

				12R9				
Claim	Date		11/07/2012	kepair Stati	ion UZNR483N	_		
Claim			12492356			Page	: 3	
Div-P			02-20			Ack. No	: 1259865	
			T03260 TEKNON LLC					
Ship S						Phone	:	
Part 1	No.	<u>:</u>	N/A: UASC PROPERT	Y, SHIP TO UNKNO	OWN	Phone		
	Descr					Part Serial	: 1186	
Reason			1E FMS, GPS, VID/		L, GRAY	Warranty No	:	
A/C Se		:	CE WARRANTY EXCHA	NGE		Expires		
	tration	:				Customer PO	: N395BC	
A/C De						Туре	:	
11/0 00		DIE.	C MEDE INCLUDED					
			S WERE INCLUDED:					
			ATION MATERIAL	1				
			E GASKET					
	THIS AP	PLI.	ANCE WAS MODIFIED	IN ACCORDANCE W	VITH UNIVERSAL			
	AVIONIC	S M.	AINTENANCE MANUAL	34-60-28_UNS-1E	E_UNS-1C+_FMS.			
	ANY OTH	ER	MAINTENANCE ACTION	NS THAT WERE NEC	CESSARY ARE			
	DETAILE	D II	N THIS WORK ORDER	•				
	PASSED	FIN	AL ACCEPTANCE TEST	ring in accordan	CE WITH ABOYE			
	REFEREN	CED	MAINTENANCE MANUE	AL.				
	NIBIT DAM	7 D 7	an ^- \					
007			SE EXP DATE: 05/3	0/13 REGION: WOR	LDWIDE 2000'			
007	VALENTI		JOHN	$\sum_{i=1}^{N} X_i = \sum_{i=1}^{N} X_i = \sum_{i=1}^{N$	\times \times		05/02/2013	0.10
000		ED I	REPAIRMAN SUPERVIS	SOR MAINTENANCE.	$\sim \chi_{\rm c}$			
008	PINEDO		VINCENT	/ [] []	\ .		05/03/2013	0.10
			ENANCE INSPECTION		\			
	APPLIAN	CE I	PASSED INSP TAW IN	ISPECTION PROCED	URES REPORT #	20430.		
009		TON	COMPLETED AT 1604	1.	·	and the second s		
009	PINEDO		VINCENT		1		05/03/2013	0.10
			ECTION PERFORMED.		/			
	APPLIAN	CE E	PASSED INSP IAW IN	SPECTION PROCED	URES REPORT #	20430.		
			LE IS AIRWORTHY WI	TH RESPECT TO T	HE WORK			
	PERFORM	SD.	/ .					
			12%					
(T)1			and the second s					
Tech	TREMBLA	Y.	NICK		T EÇ H S	TAMP# 65 Date	05/03/2013	
0								
Cert								
Rpmn				i de la filipia				
Supv	173 7 F34F F3							
Maint	VALENTIN	ŧΕ	JOHN	CERT RPMN #3	535480	Date	05/03/2013	
Doot								
Post Maint				Stew				
	DEUDDO							
Insp	PINEDO		VINCENT		INSP S	TAMP# 46 Date	05/03/2013	
~~								
Cert								
Rpmn								
Perf								
Final	DILIPPO		# # AP & W. Ma Land					
Insp	PINEDO		VINCENT	CERT RPMN #35	64481	Date	05/03/2013	
	The name	id	entified above is	the inspector a	attesting to the	he proper		

above is the inspector attesting to the proper final acceptance condition and airworthines of this product IAW inspection procedure report # 20430. The above electronic signature can be verifed by examining the 8130-3 associated with this work order.

		Sketch / describe the repair or modification below:	P	Squawk #:	Work Order #: 290/9	Serial #: 209	Model: 1-357	LEARDET	· 122112	Registration:	Revised 05/08
		on below:				PROJET 802		Reference Data:	Repair or Modification Approval	WEST/ST/2	×
CAA III C I V II D C C V II C C C C C C C C C C C C C C C	QA/E Major Pennir DTC in Min	337 with 8110-3	Method of 337 with STC	This Repair/Alteration is: Major	Engineering Approval	QA Approval			· Doug HOOGEVEEN	Capitalization of (Living Name Here)	Submitted by: (DDINIT NAME LIEDE)
		Non-Field Approved 337	Field Approved 337	Minor	OAV	(2 1/2 2/1	Injuna Date _	sometiment of the state of the			

INSTALLING DUAL UNIVERSAL UNS-1E'S FMS UPGRADE

- 1408-00-2 \$\$ DTU MOUNTED TO THE AFT END OF THE PEDESTAL BY FABRICATING A CLOSE OUT TO HOUSE THE SSDTU.

REMODE THE EXISTING FILEHT FORE SYSTEM

REMOUE EXISTING FLICHT FORE ANTENNA FROM THE BELLY AND PATCH WITH A 2024-T3 , 125 BEARK PLATE TO MATCH THE ARTEMA FOOT FRIET

WSF 802

.Craig∗Stout∗

Crystal Martinez From:

Friday, April 12, 2013 8:58 AM Craig Stout Revision of SOF N22MS Sent:

Ţo:

Subject:

Type	N#	MODEL- SN	DUEIN	DUEOUT	LEAD	wo	PART 135	REVISED	QAI	TRACKER NEEDED	DONE	RESEARCHER	
J	22MS	35A-209	4/16/2013	5/3/2013	Scott	29019	0	4/12/2013	Craig	-1	0		AVION 1Ms ar

Crystal Martinez

QA Inspector Admin Assistant West Star Aviation - Grand Junction 970-243-7500 - Phone (800) 255-4193 - Toll Free http://www.weststaraviation.com



	edestal. ttaches to the pede	337 with 8110-3 Major Repair RTS in WO	Method of 337 with STC Approval:		Work Order #: 29019 Engineering Approval	AC-43	<u> </u>	Registration: P 122M5 Repair or Modification Approval P Don Johnson	Revised 06/08 Revised 06/08 Submitted by: (PRINT NAME HERE)
**	sing 8 8-32 nutplates & screws. All	8110-3 Non-Field Approved 337	Field Ap	Major S Minor	QA	Initial Date		•	NE HERE)

WSF 802

Rev 06/08

1 of 2

1. Approving National Aviation						
· Authority/Country:	- AUTHORIZE	AUTHORIZED RELEASE CERTIFICATE	CERTI	FICATE	3. Form Tracking Number:	
FAA/UNITED STATES	FAA Form 813	FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	SS APPRO	VAL TAG	WRK0175819	
4. Organization Name and Address:		MID-CONTINENT INSTRUMENT CO INC	ONI O		E WALLOLL STATE	
	9400 E 34th ST. NORTH WICHITA, KS 67226-261	9400 E 34th ST. NORTH WICHITA, KS 67226-2615	; II40		 Work Order/Contract/Invoice Number: 	
6 Item: 7 Description.			FAA CRS OL2R061L	61L	WRK0175819	
	o. Part Number:	9. Eligibility: 10.	Quantity: 1	11. Serial/Batch Number:	lumber: 12. Status/Work:	
1 ALTIMETER	16650-1150	N/A		171575	OVE	
13. Remarks:						
ALL WORK WAS PERFORMED REF. MANUAL #	REF. MANUAL #		ERFORMED B 5/13/04	•		
ine work specified in block 12/13 except as otherwise specified was carried out in accordance with is considered ready for release to service under EASA Approval Certificate Number EASA.145.4675	otherwise specified was carried der EASA Approval Certificate		EASA Part 145	and in respect to tha	EASA Part 145 and in respect to that work the aircraft component	
14. Certifies the items identified above were manufactured in conformity to:	ere manufactured in conform	19. X 14 CFR 43.9 R	FR 43.9 Return	eturn to Service X Ot	X Other regulation specified in Block 13	
Approved design data and are in condition for safe operation	n condition for safe operatior	•	it unless otherw			
Non-approved design data specified in Block 13.	ified in Block 13.	and described in Bloc Federal Regulations,	Bloc	was accomplished in 3 and in respect to the	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.:		29./Authorizgd/Signature		21. Approval/Cartificate No.	
17. Name (Typed or Printed):		IMM So	M.		FAA CRS OL2R061L	
() feed of fillied).	18. Date (m/d/y):	22. Name (Typed or	Typed or Printed):	id):	23. Date (m/d/y):	
		NICHO	NICHOLAS HOWE		Mar/24/2011	
User/Installer Responsibilities is important to understand that the existance of this document alone doesnot automatically constitute. Where the user/installer performs work in accordance with the existance of this document alone doesnot automatically constitute.	lance of this document alone	User/Installer Responsibilities alone doesnot automatically constitute	bilities onstitute autho	ority to install the p	authority to install the part/component/assembly.	
authority of the country specified in Block 1, it is essential that thuser/installer ensures that his/her airworthiness authority different than the airworthiness from the airworthiness acceptsparts/components/assemblies airworthiness acceptsparts/components/assemblies	1, it is essential that thuser/untry specified in Block 1.	regulations of an airwor installer ensures that his	thiness author /her airworthir	uthority different than the airworthiness orthiness acceptsparts/components/ass	e airworthiness omponents/assemblies	
Statements in Blocks 14 and 19 do not constitute installation certification. In all cares, aircraft maintenance records	stitute installation certificati	on. In all cases, aircraft i	maintenance re	nce records must contain an installation	n an installation	
				TOTAL.		

F.A.A. Certified Repair Station No. OL2 R061L

Ref.		C10b	F	RICTION		CHG. PT. OF
Test	Tol. ±	Friction	ALTMTR.	FINAL	±	ENCODER
Points	(Feet)	Tol.	READING	READING	TOL.	Tol. 125 '
(Feet)		(Feet)	NO VIB.	W / VIB.	(Feet)	WITH REF. TO
						ALTIMETER IND.
-1,000	20	70	-1,015	-1,015	0	
0	20	70	-15	-15	0	
500	20	70	490	490	0	
1,000	20	70	980	980	0	
1,500	25	70	1,495	1,500	5	
2,000	30	70	2,000	2,000	0	
3,000	30	70	2,995	2,995	0	
4,000	35	70	3,990	3,990	0	
5,000	35	70	5,000	5,000	0	
6,000	40	70	6,000	6,000	0	
8,000	60	70	8,015	8,015	0	
10,000	80	80	9,995	9,995	0	
12,000	90	80	12,000	12,000	0	
14,000	100	80	13,980	13,980	0	
15,000	100	90	14,970	14,970	0	
16,000	110	90	15,985	15,985	0	
18,000	120	90	17,960	17,960	0	
20,000	130	100	19,960	19,960	0	
22,000	140	100	21,970	21,970	0	
25,000	155	120	24,940	24,940	0	
30,000	180	140	29,940	29,945	5	
35,000	205	160	34,900	34,930	30	
40,000	230	180	39,930	39,930	0	
45,000	255	180	45,100	45,100	0	
50,000	280	250	49,960	49,965	5	
51,000			50,895	50,900		

Test type: Standard Altimeter Tested Through: 51,000 '

W.O. Number: 175819Part Number: 16650-1150Serial Number: 171575

1. VISUAL EXAMINATION:

Good

2. POSITION ERROR (Tol. ± 20 '):

10

3. CASE LEAK (Tol. ± 100 1/ min.):

30

4. HYSTERESIS (Tol. ± 75 '):

ALTIMETER READS

	UP	DOWN		
10% - 20,000 '	19,960 '	19,980 '		
50% - 25,000'	24,940 '	24,970 '		

5. AFTER EFFECT (Tol. ± 30 ⁺):

5

6. BAROMETRIC SCALE ERROR (Tol. ± 25 ')

			,	,	
	MB	IN HG	FEET	RANGE	READINGS
	951.6	28.10	-1,727	(-1,702 / -1,752)	-1,730
	965.1	28.50	-1,340	(-1,315 / -1,365)	-1,330
	982.0	29.00	-863	(-638 / -888)	· -870
	999.0	29.50	-392	(-367 / -417)	-400
	1013.2	29.92	0	(-25 / +25)	-
	1032.8	30.50	+531	(+506 / +556)	52 0
	1046.4	30.90	+893	(+868 / +918)	880
L	1049.4	30.99	+974	(+949 / +999)	970

7. Lighting:

Yes

8. Alerter Output:

No

9. Check for Master Altimeter: No

9a. Calibrated: No

TECHNICIAN: Khonsnan Barratty 724 DATE: 03/23/

SHOP INSPECTOR:

DED TRAN #767

03/23/11

INSPECTOR:

FINAL INSPECTION - ÇERTIFIED REPAIRMAN

___ DATE: 3-24-1/



47

MID-CONTINENT INSTRUMENTS CO., INC. 9400 E 34TH ST. NORTH WICHITA, KS 67226-2615 EAA CRS OL 2R061

March 2 2011

March 2, 2011		CRS OLZRUBIL		
Page: 1	Fina	I Work Orde	er	
Nomenclature	Serial No	Location	RMA#	AR#
ALTIMETER	171575	KS	RMA00000199805	6200
Manufacturer's Part No.	Model No.		Quantity	0200
16650-1150			1	
Manufacturer	Customer Item N	lumber	Service Period	
AEROSONIC			Scruce religi	
Customer	Customer PO No		Customer Reference No.	
Duncan Aviation	853789			
Reason For Removal				
1 of 2 units				
Vibrator is inop and both sector shafts have	broken parts. Eval and fax qu	ote.		
Work Instructions	^			
Warranty Repair OverhaulX	Spe Return As Is	ecial Instructions		
Functional TestRepair	 _ Modified			
Preliminary Inspection				
Seals Broken Yes Cover Dam	aged No Hido	den Damage Inspection R	Required No	
	Find			
Nameplate Damaged No			o moioe.	
Preliminary Inspector NEHAL SYED			Date Ma	rch 2, 2011
Failure Analysis				
		Customer Com		
VIBRATOR DOESN'T WORK. PIVOTS AR	E BROKEN INSIDE. UNABLE	E TO DO CALIBRATION	TEST.	
Previous Service Bulletins Installed: N/A				
Work Accomplished				
	DEDAIDED AC MEGEGGA	DV 1101110 DADTO 110-		
DISASSEMBLED, CLEANED, INSPECTED FUNCTIONAL TESTED TO MFG SPEC. L	INIT IS OVERHALLED CER	RY USING PARTS LISTE TIEIED TO EAR BARTS	ED, REASSEMBLED AND	
	MIT TO OVERTIAGEED GER	THILD TOTAK PARTS	91.411 & 43, APPENDIX E.	
I.A.W Manual # ATP 1168-1 IFCA B 5/1	13/04			
Outgoing Service Bulletins N/A				
Technician KEY SAMOUNTRY			Date Ma rch	n 21, 2011
	_		Date Marci	1 & 1, & U
In-Process Inspector ROBERT HIGHLAN	,, סו		Date March	121, 2011

FINAL INSPECTOR NICHOLAS HOWE Date March 24, 2011 Parts Used Part Number Part Description Quantity 1191-1 PIN, BEARING 205257-1 SPACER 205389-2 BACK PLATE 206342 SPACER 207514-1 VIBRATOR ASSY AS568A-006 O RING, SILICON 1191-1 PIN, BEARING

MID-CONTINENT INSTRUMENTS

Altimeter Scale Correction Card Altimeter S/N 1715 75 Part No. 16650 - 1150

REFERENCE ALTITUDE IN FT.	ALTIMETER READS	REFERENCE ALTITUDE IN FT.	ALTIMETER READS
-1000	~1015	15000	14970
0	-15	16000	15985
500	490	18000	17960
1000	980	20000	19960
1500	1500	22000	21970
2000	2000	25000	24940
3000	2995	30000	29945
4000	3990	35000	34930
5000	5000	40000	39930
6000	6000	45000	45100
8000	SO15	50000	49965
10000	9995	55000	op des
12000	12000	51000	50900
14000	13980		
Tested By: DT #	#767 Inspecto	r 1114	Date: 3-24-1

MID-CONTINENT INSTRUMENT CO. INC. 9400 E. 34th St. North Wilchita, KS 67226 USA Tel 800-821-1212 - 318-630-0101 FAA Repair Station # 0L2R061L

MID-CONTINENT INSTRUMENTS WEST
16320 Stagg Street
Van Nuys, CA 91406 USA
Tel 800-345-7599 • 818-786-0300
FAA Repair Station # OL2D061L



N22MS Lear 35A S/N: 209 TTAF: 15045.1 LANDINGS: 9490

WO #: 29019

DATE: 05-08-13

AIRFRAME ENTRY

Accomplished the following Learjet special inspections in accordance with the Lear MM-99 Rev A2

SUBJECT G1222002

Per Manufactures Instructions #1 & #2 battery capacity check Reinstalled Tested #1 battery P/N RG-380E-44 S/N:

40455612 Battery passed capacity check at 100%. #2 PN RG-380E/44 S/N 40455637 Battery passed capacity

check at 100%

D1223000

3 Month/100 Hour Inspection of #1 and #2 Ni-Cad Emergency Power Supply Battery

Accomplished the following maintenance in accordance with the above referenced manual or other acceptable documentation

Installed overhauled R/H standby pump P/N: RR12670F/ 2380060-29, S/N: B-4094, functional test satisfactory removed P/N RR12670F/ 2380060-29, S/N: B-7161

All maintenance performed on this aircraft was performed in accordance with current regulations of the FAA and was determined to be in an airworthy condition and is approved for return to service with respect to the work performed. Pertinent details are on file at this repair station under the above work order.

Signature

WEST STAR AVIATION, INC.

796 Heritage Way

Grand Junction, CO 81506 (970) 243-7500

FAA CERTIFIED REPAIR STATION

WTXR173J

WO #: 29019

DATE: 05-08-13

STATIC SYSTEM. ALTIMETER, ALTITUDÉ RÉPORTING AND TRANSPONDER

Installed a new Standby Altimeter P/N 11650-1150, S/N 171575, Tested vibrator, checks good. Removed P/N 11650-1150, S/N 171152.

The tests and Inspections required by CFR 91.411 and CFR 91.413 have been performed and found to comply with Part 43, Appendices E and F:

Complied with RVSM Air Data Accuracy Test

Certified the #1 and #2 pitot/static systems IAW Learjet RVSM ICA AMI-STC-LJ3536 and 14 CFR, part 43, appendix E para (b) to an aititude of 45,000 feet

No.1 ADDU P/N: 9d-80130-1

S/N: 10519

No.2 ADDU P/N: 9d-80130-1

S/N: 41867

Standby Altimeter P/N: 16650-1150

S/N: 17575

Certified the #1 and #2 automatic altitude reporting systems IAW 14 CFR part 43, appendix F para (a thru d).

No.1 Mode S Transponder P/N: 622-1270-00 S/N: 1116

No.2 Mode S Transponder P/N: 622-1270-00 S/N: 12937

Complied with RVSM Critical Region Inspection

Checked Pitot/Static probe alignment IAW Learjet RVSM ICA AMI-STC-LJ3536.

The above certifications meet the requirements of 14 CFR 91.411 and 91.413 and for flight into RVSM airspace.

Flight test required for altitude hold

Accomplished a 30 day VOR check: Verified VOR operation and bearing error is within spec, as per FAR 91,171.

I certify that this aircraft has been inspected as required by 14CFR §91.409 (f) (3), and has been determined to be in an airworthy condition and is approved for return to service with regards to the work performed. Pertinent details are on file at this repair station. under the above work order. A copy of this work order has been provided to the operator.

Signature

WEST STAR AVIATION, INC

796 Heritage Way

Grand Junction, CO 81506 (970) 243-7500

FAA CERTIFIED REPAIR STATION

WTXR173J

WEST/STAR

N22MS

MAKE/MODEL: LearJet 35A

S/N: 35A-209 TTAF: 15,045.1 LANDINGS: 9490 HOBBS:

AVIONICS ENTRY, PG. 1

WO #: 29019

DATE: 05/08/2013

Installation of a Dual Universal Avionics Systems UNS-1E Flight Management System (FMS) IAW West Star Aviation
Drawing No. 6875312-001, Rev IR, dated APR/11/2013 and Approved by FAA Form 8110-3, dated May/08/2013

This installation consists of the following components:

- Universal Avionics UNS-1E FMS (2ea) P/N 2017-42-211 S/N 196 & 1186
- Solid State Data Transfer Unit SSDTU P/N 1408-00-2 S/N 2312
- PS Antenna (2ea) P/N 10706 S/N 16291 & 16292
- Configuration Module (2ea) P/N 10171 S/N 6320 & 6321

Reference West Star Aviation Amendment to the Equipment List and Weight and Balance Form dated MAY/08/2013 for details regarding installed or removed equipment due to this alteration.

An FAA Approved Airplane Flight Manual Supplement Document No. 6855312.001, Rev IR, dated May/01/2013, has been provided to the customer, DERT500112CE

All maintenance performed on this aircraft was performed in accordance with current regulations of the FAA and was determined to be in an airworthy condition and is approved for return to service with respect to the work performed. Pertinent details are on file at this repair station under the above work order

Signature

WEST STAR AVIATION-INC

796 Heritage Way

Grand Junction, CO 81506 (970) 243-7500

FAA CERTIFIED REPAIR STATION

WTXR173J



R/H ALT. PRESS TOLER-L/H ALT. ALTI-ERR. (+/-) FT ANCE FT. ERR. (+/-) FT. TUDE HQ -1000 20 -1000 31.018 -1000 -1000 0 20 0 29.921 0 0 500 500 20 500 29.385 480 1000 1.000 1000 20 28.856 980 1500 1500 25 / SOU 1500 28.335 27.821 30 2000 2000 2000 2000 30 3000 3000 3000 3000 26.817 35 4000 4000 25.842 40000 4000 6000 6000 6000 23.978 40 6000 8000 60 8000 8000 8000 22.225 9920 10000 20.577 80 10000 16000 1/920 12000 90 BROW 19.029 12000 13900 14000 17.577 100/4000 14000 110 16000 15890 16000 16.216 6000 17830 18000 120 18000 15000 14.942 130 20000 20000 19860 20000 13.750 21850 22000 140 22000 22000 12.636 155 23000 25000 24850 25000 11.104 30000 180 30 000 8.885 Z9830 30000 38000 205 3**5 00**0 34795 35000 7.041 230 40 000 90000 39960 40000 5.538 44880 45000 255 44995 44985 4.355 3.425 280 50000 51000 3.264 285

		HYSTERE	SI S	
	HYSTER	ESIS TOLER	ANCE (+/-) 75 F	Τ.
MAX.		50% l	POINT	
CERT.	ALTI-	PRESS.	L/H ERR.	R/H ERR
ALT.	TUDE	HQ	(+/-) IN FT.	(+/-) IN FT.
35000	17500	15.260		
41000	20500	13.471		
43000	21500	12.941		
45000	22500	12.379	ZZ500	22500
51000	25500	11.104		
AFTER E	FFECTS TE	ST READING	(+/-) 30 FT. LH	R

MAX.		40% F	POINT	
CERT	ALTI-	PRESS	L/H ERR.	R/H ERR.
ALT.	TUDE	HQ	(+/-) IN FT.	(+/-) IN FT.
35000	14000	17.577		
41000	16400	15.961		
43000	17200	15.451		
45000	18000	14.942	19000	18000
51000	20000	13.750		

ALTIMETER/AIR DATA SYSTEM TEST AND INSPECTION WORK SHEET

REF: CFR 91.411

	FRICTION	TEST		
ALTI-	TOLER:	L/H ALT.	R/H ALT.	Creak
TUDE	ANCE	ERR. (+/-) FT.	ERR.(+/-) FT.	-160
1000	(+/-) 70 FT.			-160
2000	(+/-) 70 FT.			
3000	(+/-) 70 FT.			
5000	(+/-) 70 FT.	NA		
10000	(+/-) 80 FT.			
15000	(+/-) 90 FT.			
20000	(+/-)100 FT.	Clerke	A	
25000	(+/-)120 FT.		40	
30000	(+/-)140 FT.			
35000	(+/-)160 FT.			
40000	(+/-)180 FT.			
50000	(+/-)250 FT.]

BAROME	TRIC SCALE ERF	R. TEST TOLERA	NCE (+/-) 25 FT.
PRESS	DIFFERENCE	L/H	R/H
IN HQ.	ALTITUDE IN FT.	ALTIMETER	ALTIMETER
28.10	952/-1727		
28.50	965/-1340		
29.00	982/-863	A A	A
29.50	999/-392	10 1	7
29.92	1013/0	0/	0/
30.50	1033/531		
30.90	1046/893		
30.99	1049/974		
	*CASE LEAK	TEST AT 18,000 F	-T.
			R/H ALTIMETER
TOLERA	NCE (+/-) 100 FT.	-43 FT	-43FT
	TESTE	QUIPMENT	
TYPE		SERIAL NO.	CALIB. DATE

NO #: 29019 4.1 DATE: 5-3-2013
DATE: 5-3-2013
A/C REGISTRATION NO.: No.: No.: No.: No.: No.: No.: No.: No
A/C SERIAL NO.: 35A 209
HOBBS:
_/H ALTIMETER P/N: 90 - 80130 -1
S/N: /05/9
R/H ALTIMETER P/N: 90 - 80130 -1
S/N: 41867
AIRDATA No.1 P/N: VA
S/N:
AIRDATA No.2 P/N:_ ~ ~
S/N:

SMIT

-1720

-1340

-860

7.6KTS



-1000

ALTITUDE INFORMATION SECOND. ENCODER TEST PRIMARY ENCODER LOW HIGH LOW HIGH **INCREMENTS** -1000 -10ac 1000 500 500 500 * 1000^{AD} 1500 1500 1500 * 2000 3000 3000 3000 4100^{AD} 6000 6000 * 6000 8000 10000 10000 10000 12000 * 12000 12000 14000 14000 14000 15700^{AD} 18000 18000 ** 18000 20000 20000 * Z0000 22000 22000 ZZCCO25000 30000 30000 * 30000 31000^{AD} 35000 35000 35000 * 40000 45000 4500 45000 50000 1 51000

1	MAXIMUM SERVICE C	
	FERENCE INFORMA	IION """
MAKE/MODEL	EFFECTIVITY	CEILING (Ft)
LEAR 24 & 24A	SN: 100-139	41,000
LEAR 24 & 24A	SN: 140 AND UP	45,000
LEAR 24 B - F	ALL SN's	45,000
LEAR 24E & F	WITH ECR 1410	51,000°
LEAR 25A - D, &F	ALL SN's	45,000
LEAR 25D & F	WITH ECR 1409	51,000
LEAR 31 & 31A	ALL SN's	54,000
LEAR 35 & 35A	ALL SN's	45,000
LEAR 36 & 36A	ALL SN's	45,000
LEAR 45	ALL SN's	51,000
LEAR 55, 55A-C	ALL SN's	51,000
CESSNA 425	ALL SN's	35,000
CESSNA 441	ALL SN's	35,000
CESSNA 500/501	SN's 0001 TO 0213	35,000
CESSNA 500/501	SN's 0214 AND UP	41,000
CESSNA 525	ALL SN's	41,000
CESSNA 550/551	ALL SN's	43,000
CESSNA 560	ALL SN's	45,000
CESSNA 650	ALL SN's	51,000

TRANSPONDER/ENCODER TEST AND INSPECTION WORK SHEET

•	TRANSPOND	ER TESTS	
TEST DESCRIPTION	TOLERANCE	#1 XPONDER	#2 XPONDER
FREQUENCY	(+/-) 3 MHz	1090,08	1088-19
RECEIVER			
SENSITIVITY	(+/-) 4db	-73.9	-70-5
-73DBM			
POWER	SEE NOTES		
MAX 500	BELOW	257	347
1. CLASS 1A ANE			T
POWER, MINI	. 3A, 4 AND CLAS ER WITH OPTION MUM POWER = 1	IAL HIGH RF PE 25 WATTS.	EAK OUTPUT
3. CLASS 1A, 2A, TRANSPONDE POWER, MININ 4. CLASS 1B, 2B, POWER = 70 V WO #: 29019 A/C REG. #: \(\(\text{V} \) 2	3A, 4 AND CLASER WITH OPTION MUM POWER = 1, 3B, MODE STRANATTS. 4, 1 2MS_A/C	AL HIGH RF PE 25 WATTS, ANSPONDER M DATE: MAKE: C	EAK OUTPUT MINIMUM 3 201 LESSR
3. CLASS 1A, 2A, TRANSPONDE POWER, MININ 4. CLASS 1B, 2B, POWER = 70 V	3A, 4 AND CLASER WITH OPTION MUM POWER = 1 , 3B, MODE S TRA NATTS. 7, / 2MS A/C	AL HIGH RF PE 25 WATTS, ANSPONDER M DATE: MAKE: C	EAK OUTPUT MINIMUM 3 201 LESSR
3. CLASS 1A, 2A, TRANSPONDE POWER, MININ 4. CLASS 1B, 2B, POWER = 70 V WO #: 29019 A/C REG. #: 1/2 A/C MODEL: 5 HOBBS: No 1 TRANSPON	3A, 4 AND CLASER WITH OPTION MUM POWER = 1 , 3B, MODE S TRA NATTS. 7, / 2 M S A/C S A A/C DER MANE:	AL HIGH RE PE 25 WATTS. ANSPONDER M DATE: 5 MAKE: C C S/N: 554 C TTAF:	EAK OUTPUT MINIMUM 3 201 LESSR
3. CLASS 1A, 2A, TRANSPONDE POWER, MINIM 4. CLASS 1B, 2B, POWER = 70 V WO # 29019 A/C REG. # NO A/C MODEL: HOBBS: No.1 TRANSPON P/N: 222	3A, 4 AND CLASER WITH OPTION MUM POWER = 1 , 3B, MODE S TRA NATTS. 7, / 2 M S A/C S A A/C DER MANE:	AL HIGH RE PE 25 WATTS. ANSPONDER M DATE: 5 MAKE: C C S/N: 554 C TTAF:	EAK OUTPUT MINIMUM 3 201 LESSR
3. CLASS 1A, 2A, TRANSPONDE POWER, MININ 4. CLASS 1B, 2B, POWER = 70 V WO # 29019 A/C REG. # 102 A/C MODEL: S HOBBS: No.1 TRANSPON P/N: 22 S/N: 1//6	3A, 4 AND CLASER WITH OPTION MUM POWER = 1, 3B, MODE S TRAVATTS. 7, 1 2HS A/C A/C DER MANF: 1270 OO	AL HIGH RE PE 25 WATTS. ANSPONDER M DATE: 5 MAKE: C C S/N: 554 C TTAF:	EAK OUTPUT MINIMUM 3 201 LESSR
3. CLASS 1A, 2A, TRANSPONDE POWER, MININ 4. CLASS 1B, 2B, POWER = 70 V WO # 29019 A/C REG. # 102 A/C MODEL: No.1 TRANSPON P/N: 22 S/N: 116	3A, 4 AND CLASER WITH OPTION MUM POWER = 1, 3B, MODE S TRANATTS. 7, 1 2H S A/C A/C DER MANF: 1270 OO DER MANF:	AL HIGH RE PE 25 WATTS. ANSPONDER M DATE: 5 MAKE: 6 C S/N: 554 C TTAF:	EAK OUTPUT MINIMUM 3 201 LEAR
3. CLASS 1A, 2A, TRANSPONDE POWER, MININ 4. CLASS 1B, 2B, POWER = 70 V WO #: 29019 A/C REG. #: NO.1 TRANSPON P/N: 22 S/N: /// C	3A, 4 AND CLASER WITH OPTION MUM POWER = 1, 3B, MODE S TRANATTS. 9, 1 2MS A/C 3MS A/C A/C DER MANF: 1270 00 DER MANF: (270 00	AL HIGH RE PE 25 WATTS. ANSPONDER M DATE: 5 MAKE: 6 C S/N: 554 C TTAF:	EAK OUTPUT MINIMUM 3 201 LEAR
3. CLASS 1A, 2A, TRANSPONDE POWER, MININ 4. CLASS 1B, 2B, POWER = 70 V WO # 29019 A/C REG. # 1/1/2 A/C MODEL: 5 HOBBS: No.1 TRANSPON P/N: 22 S/N: ///6 No.2 TRANSPON P/N: 22 S/N: ///6	3A, 4 AND CLASER WITH OPTION MUM POWER = 1, 3B, MODE S TRANATTS. 9, 1 2MS A/C 3MS A/C A/C DER MANF: 1270 00 DER MANF: (270 00	AL HIGH RE PE 25 WATTS. ANSPONDER M DATE: 5 MAKE: 6 C S/N: 354 C TTAF: 1	EAK OUTPUT MINIMUM -3 -201 LESSR -209
3. CLASS 1A, 2A, TRANSPONDE POWER, MININ 4. CLASS 1B, 2B, POWER = 70 V WO # 29019 A/C REG. # 1/1/2 A/C MODEL: 5 HOBBS: No.1 TRANSPON P/N: 22 S/N: ///6 No.2 TRANSPON P/N: 22 S/N: ///6	3A, 4 AND CLASER WITH OPTION MUM POWER = 1, 3B, MODE S TRAVATTS. 7, 1 2HS A/C DER MANF: 1270 OO DER MANF: 1270 OO PE OF TEST(S) A	AL HIGH RE PE 25 WATTS. ANSPONDER M DATE: 5 MAKE: 6 C S/N: 354 C TTAF: 1	EAK OUTPUT MINIMUM -3 -201 LESS 209
3. CLASS 1A, 2A, TRANSPONDE POWER, MININ 4. CLASS 1B, 2B, POWER = 70 V WO # 29019 A/C REG. # 102 A/C MODEL: SHOBBS: No.1 TRANSPON P/N: 22 S/N: 1// 6 No.2 TRANSPON P/N: 22 S/N: 1// 6 No.2 TRANSPON P/N: 22 TRANSPON TY	3A, 4 AND CLASER WITH OPTION MUM POWER = 1 , 3B, MODE S TRA NATTS. 9, 1 2MS A/C A/C DER MANF: 1270 CO DER MANF: 1270 CO PE OF TEST(S) A CHECK PER (a) OF	AL HIGH RE PE 25 WATTS. ANSPONDER M DATE: 5 MAKE: 6 C S/N: 354 C TTAF: 1	EAK OUTPUT MINIMUM -3 -201 LESS 209

14 CFR 43, PARA (a) OF		
APPENDICES E & F.		
TRANSPONDER TEST PER 14	~	
CFR 43, APPENDIX E, PARA (c) &		
14 CFR 91.217.		
TRANSPONDER TEST PER	~	
14 CFR 43, APPENDICES E & F.		
(2 YEAR RECERTIFICATION)		

VOTES:

- 1. REFERENCE WORK ORDER FOR ALL TECHNICIAN AND INSPECTORS SIGNATURES.
- 2. RECORD THE PILOT'S ALTIMETER READING AT THE INSTANT OF TRANSITION IN THE DIGITIZER.
- 3. THE DIFFERENCE BETWEEN THE AUTOMATIC REPORTING OUTPUT AND THE ALTITUDE DISPLAYED AT THE ALTIMETER SHALL NOT EXCEED 125 FEET, AT ANY POINT.
- * CHECK ENCODING AT THESE ALTITUDES.
- ** ADJUST THE ALTITUDE ALERTER AT THIS ALTITUDE.
- *** FOR REFERENCE ONLY.
- AD CHECK THESE POINTS TO COMPLY WITH AD 99-23-22.

	U.S. DEPARTMENT O				1. DATE
STATEMENT OF COM	FEDERAL AVIATION			GULATIONS	May 8, 2013
2 11225			T COMPONENT IDENTIFICA		
2 MAKE	3. MODEL NO.	4. TYPE 34.	rpiane. Engine, Propeller, utc.)	5. NAME OF API	PLICANT
Learjet	35A S/N 35-209		Airplane	West S	Star Aviation, Inc.
		LIS	T OF DATA		
: CENTIFICATION					
6875312-001 Rev (I/R) dated 04/11/13	regulations speci Requirements." required. This f substantiation of This approval is NOTE: 1) This Aspe	ified by p Complia form does f complia for engin approval cts", and system m	aragraph and subpar ince to additional regu i not constitute FAA a nce to necessary requi neering data approval	agraph listed idations not lis pproval of all irements for the only and is no list only and is Model 35A	ted here may be data necessary for ne entire alteration. t installation approval. Approval of Structural, S/N 35-209.
8. PURPOSE OF DATA Approve the wiring diagra Flight Management Syste	ms in a Learjet Model	n for the 35A aircr	upgrade of the Dual Un aft, S/N 35-209.	iversal Avionic	s UNS-1M to UNS-1E
9. APPLICABLE REQUIREMEN 14 CFR Part 25, Sections 25.1301 (a)(b)(c) No Amd 25.1309 (a) No Amdt 25.1357 (a)(c) No Amdt 10. CERTIFICATION - Under au under 14 CFR Part 183, data list procedures and found to comply LiWe) Therefore	thority vested by direction of ed above and on attached s with applicable requirement Recommend approval of the Approve these data	sheets numl its of the Air	pered <u>N/A</u> have be worthiness Standards listed.	th conditions and li en examined in ac	mitations of appointment cordance with established
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John L W	ezenton John L. V	Viginton	DERT-230135-CE	System	s & Equipment (EE)
		Additionable and a person		-	LW-1305-01



Amendment to Aircraft Equipment List and Weight and Balance

Aircraft Make: Lear Jet	Aircraft Model: 35A	Aircraft Seri	al: 35A-209		
ate: MAY/08/2013		Aircraft Owr	ner: Evergreen Ed	quity Inc	
	RAFT WEIGHT & BALANCE	INFO.	WEIGHT	ARM	MOMEN
3Y: Evergreen Helicopters			10104	38 2.57	3865542
FOLIBMEN	T <i>Installed i</i> n aircraf		7		
DESCRIPTION	MODEL/PART NUMBER		WEIGHT	ARM	MOMEN
UNS-1E FMS	2017-42-211	SERIAL NUMBER			
UNS-1E FMS	2017-42-211	1186	7.65	184.78	1413.57
GPS Antenna	10706	196	7.65	184.78	1413.57
GPS Antenna		16291	0.50	234.19	117.10
SSDTU	10706	16292	0.50	271.99	136.00
Configuration Module	1408-00-2	2312	2.50	198.80	497.00
Configuration Module	10171	6320	0.10	184.78	18.48
Comiguration Module	10171	6321	0.10	184.78	18.48

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TOTAL					·····
TOTALS	OF EQUIPMENT INSTALLED		19.00		3614.18
FOLIPMENT	REMOVED FROM AIRCRA	=T	T		
DESCRIPTION	MODEL/PART NUMBER		WEIGHT	ARM	MOMENT
UNS-1M FMS	1013-41-011	SERIAL NUMBER			· · · · · · · · · · · · · · · · · · ·
UNS-1M FMS	1013-41-011	328	6.5	184.78	1201.07
Handset W/ Cabin Control	400-0031-1	329	6.5	184.78	1201.07
Handset Cockpit	400-0031-1	2759	2.70	332.66	898.18
Cockpit Control Unit		380	1.13	196.99	222.60
RT-18D	400-0032-2	1577	1.10	195.80	215.38
(777-300)	400-0033	3294	7.10	192.75	1368.53
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TOTALS	OF EQUIPMENT REMOVED		12.03		2704.69

NEW AIRCRAFT EMPTY WEIGHT: NEW AIRCRAFT MOMENT:

10110.97 3866451.69 Note: Refer to the aircraft Flight Manual for maximum

NEW AIRCRAFT EMPTY C.G.:

382.40

weights and C.G. limits.

Signed:

WEST STAR AVIATION, INC.

796 Heritage Way -- Grand Junction, CO 81506 -- (970) 243-7500 FAA CRS# WTXR173J

WEST STAR EQUIPMENT REMOVAL & INSTALLATION LIST

AIC MAKE:

A/C MODEL:

209

registration #: $\mathcal{N}22\mathcal{MS}$

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5m 15 4/205m	5m 15 4/22	5M 15 4/2	SM 15 4/22	5m 15 4/25M	5m 15 4/2	Sm 15 4/22	Sm 15 4/22	5m 15 4/22	5m 15 4/2	5M 15 4/22	SM 15 4/22	5M 15 4/22	REMOVED BY INITIAL DEPT DATE
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Rev 10/08



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EQUIPMENT REMOVAL & INSTALLATION LIST

ACC MARKE: ACC MODEL: ACC	A/C SN: REGISTRATI	REGISTRATION #	WORK ORDER #:		
500		CUMD	27019	SHEET	O OF
# ITEM DESCRIPTION	PART#	SERIAL #	EMOVED B	STALLED BY	TECH OK FINA
NEW UNS-IE FMS	ITEM FRAME STATION LOCATION:	196	CAIC	5M 15 5/6	
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PRE-DELIVERY AIRCRAFT & EQUIPMENT STATUS

REGISTRATION #: N22MS WORK ORDER #: 29019 DATE: 5/6/13

DESCRIPTION	TECH	DESCRIPTION	TECH	
NOSE		UNDERSIDE OF AIRCRAFT		
"BLACK BOXES" FOR INSTALLATION & SECURITY	0b	FUEL PANELS/FASTENERS – SECURE	2019	
O2 & N2 BOTTLES FOR INSTALL, SECURITY & O2 SET TO "ON"	200	NO FUEL LEAKS	268	
ALCOHOL RESERVOIR LEVEL & CAP SECURED	200	JACK PADS REMOVED &SCREWS REINSTALLED	200	
NOSE COWLS AND ALL FASTENERS SECURED	toif	TIRE INFLATION CHECK WITH GAUGE	201	
STALL VANES FOR FREEDOM OF MOVEMENT	200	STRUT INFLATION - VISUAL CHECK	201	
PITOT & STATIC PORTS CLEAN AND CLEAR	200	ANTI-SKID TRANSDUCER CAPS SAFETIED	200	
COCKPIT	•	GEAR/WHEEL WELL AREA FOR HYDRAULIC LEAKS	258	
MASTER CAUTION - ASSURE OPERATION	3019	INBOARD GEAR DOORS ATTACHED TO ACTUATOR -	28	
"PRESS TO TEST" ANNUNCIATORS - OPERATION	DP	CHECKED VISUALLY (HARDWARE IN PLACE!!)	Als 8	
ROTARY TEST SWITCH - ASSURE ALL FUNCTIONS	DIF	OUTBOARD GEAR DOOR RODS ATTACHED,	~-0	
N2 BOTTLE PRESSURE (2000) PSI	208	HARDWARE IN PLACE AND SAFETIED IF REQUIRED – VISUALLY VERIFIED!!!	JOP	
O2 BOTTLE PRESSURE (1850) PSI	201	FUSELAGE PANELS IN PLACE/SCREWS TIGHT	208	
MAP LIGHTS FOR OPERATION	DP	ALL ANTENNAS FOR SECURITY AND CONDITION	201	
INSTRUMENT LIGHTS FOR OPERATION	300	AIRCRAFT GENERAL		
PEDESTAL LIGHTING FOR OPERATION	æ	LANDING, TAXI AND RECOG. LIGHTS - OPERATION	288	
EL LIGHTING FOR OPERATION	ATP	NAV. LIGHTS, STROBES & BEACONS - OPERATION	arp	
FLOOD LIGHTS FOR OPERATION	AP	WING ICE LIGHTS - OPERATION	208	
ICE DETECT LIGHTS FOR OPERATION	200	FUEL CAPS - SECURE	DP	
O₂ MASKS INSTALLED, STOWED & CHECK O₂ ON	200	WING PANELS/FAIRINGS & FASTENERS – SECURE	20P	
CREW SEAT STOPS INSTALLED AND SECURED	CC	TAIL PANELS/FAIRINGS & FASTENERS - SECURE	200	
AVIONICS COMPONENTS INSTALLED & SECURE	CC	ALL STATIC WICKS – SECURE	a	
CIRCUIT BREAKERS FOR POSITION	CC	ENGINES		
FLIGHT CONTROLS - FREEDOM OF MOVEMENT	201	INLETS CHECKED FOR FOD/OBSTRUCTIONS	DP	
PITCH TRIM OPERATION - PRIMARY & SECOND.	Del.	EXHAUST NOZZLE CHECKED FOR OBSTRUCTIONS	208	
PITCH AND ROLL TRIM - PILOT AUTHORITY	DP	ENGINE OIL LEVELS	DP	
FLIGHT CONTROL TRIM POSITIONS CENTERED	DP	COWLINGS PROPERLY SECURED	DP.	
POWER LEVERS CUTOFF POSITION	201	OIL FILLER DOORS SECURED	20P	
THRUST REVERSERS LEVERS – STOWED POS.	20P	THRUST REVERSERS STOWED	200	
COMPASS CARD INSTALLED	20%	HELL HOLE		
CUSTOMER EQUIPMENT AND PROPERTY	e de la companya de l	HYDRAULIC RESERVOIR PROPERLY SERVICED	200	
AIRCRAFT FLIGHT MANUAL IN AIRCRAFT	DH	HYD. ACCUMULATOR PRE-CHARGE (& 50) PSI	200	
TRIP LOG/CHARTS ONBOARD AIRCRAFT	DI	HYD RESERVOIR CAP TIGHT	AP.	
MAINTENANCE LOG IN AIRCRAFT	DЦ	BATTERIES SECURED, CONNECTED & SAFETIED	27 8	
CERTIFICATE OF AIRWORTHINESS IN PLACE	D4	SECURITY OF COMPONENTS (SPARE TIRE, ETC)	288	
AIRCRAFT REGISTRATION IN PLACE	DH	FLUID LEAKS	20 8	
CUSTOMER PROPERTY RETURNED TO A/C (KEYS?)	W W	MAINTENANCE EQUIPMENT REMOVED	DYP	
CABIN		CAP & PLUG REMOVED FROM PRESS / HYD SYSTEM & LINE CONNECTED	201	
SEATS /SEAT STOPS INSTALLED, BELTS POSITIONED	20-8	DRAG CHUTE INSTALLATION	NA	
INTERIOR CLEAN AND PRESENTABLE	CL	HELL HOLE DOOR CLOSED AND SECURED	841	
EMERG. EXIT HANDLE SAFETIED (BREAK-AWAY)	DP	CREW LEADER OR LEADMAN		
FLUORESCENT LIGHTS FOR OPERATION	DEP	LOG ENTRY COMPLETED AND IN LOGS	Pri	
READING LIGHTS FOR OPERATION	SP	"145 STICKER" SIGNED	44	
SEAT BELT/NO SMOKING SIGN - OPERATION	NA	ENGINE/AIRFRAME RUNS COMPLETED	10	
	"/	ORANGE TAG PLACED IN WORK ORDER PACKET	Ð⁴	

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FAA Approved

Instructions for Initial and Continued Airworthiness for Learjet Models 35/35A/36/36A Airplanes Qualified for Operations in Reduced Vertical Separation Minimum (RVSM) Airspace

Supplemental Type Certificate No: ST00952SE-D

Airplane Model	Serial Numbers
35	35-002 to 35-066
35A	35-067 to 35-676
36	36-001 to 36-017
36A	36-018 to 36-063

Inspections and tests required for RVSM Initial Airworthiness Compliance must be conducted per the instructions in this document, prior to receiving RVSM Operational Approval. After RVSM Approval is granted, the operator must perform inspections and tests required for Continued Airworthiness Compliance; also detailed in this document.

These instructions must be added to the existing maintenance and flight operations programs for the airplane to conduct operations in RVSM airspace. Additional care, calibration and monitoring of the condition of the airplane air data and automatic altitude control systems (with special attention in the neighborhood of the Pitot-static probes) must be taken. Any deviation from these procedures must be coordinated through the holder of this Supplemental Type Certificate (herein "STC holder") and the responsible airworthiness authority prior to operation in RVSM airspace.

The RVSM airworthiness requirements presented in this document may not be applicable to airframes on which configuration modifications were completed after delivery (including engine modifications, wing/fuselage modifications, etc.). Contact the STC holder for disposition.

The information presented in this document supplements or supercedes the basic manual only in those areas specified. For maintenance procedures pertaining to the airplane, systems and specific avionics equipment not covered in these instructions, see the manufacturer's requirements and procedures.

STC Holder: Learjet Inc.

One Learjet Way Wichita, KS 67209

Log of Pages

Pages	Rev.	Description	Date	Approval ~ STC Holder
i-iii, 1-25	NEW	Initial Release	July 30, 2001	ady C. Win
2 4,5 7 11 18 23	A	Revised PN specification for Autopilot Control Panel (FC-530) Revised probe age limitation; revised Initial Airworthiness task list. Updated/corrected configuration data. Revised minimum dimensions of RVSM Critical Region. Revised SWA conformity form. Modified requirements for flight crews.	Nov. 30, 2001	John Wiginton
i 14, 22	В	Revised STC number to show DAS Approval Revised text to reference correct Section in MLESFT 1107	Jan. 23, 2003	John Wiginton
1 10 14 22	С	Section 1.1 - Modified third paragraph. Section 1.2 - Deleted phrase for colored segments for FC-200 and FC-530 differences. Added last sentence in main paragraph to 2.1.2. Added 2.1.2.1. In 2.1.3.4 - changed 5.4.2 to 5 In 2.4 - changed 5.4.2 to 5	July 1, 2003	John Wiginton
13 23	D	Modified 2.1.3.1 Deleted Section 3. B 1. Renumbered B1-5	July 1, 2003	John Wiginton

Log of Pages

Pages	Rev.	Description	Date	Approval ~ STC Holder
	Е	By revision:		
iv		TOC: Renumbered pages	March 7, 2005	
iv		2. LOF: Added figure 11		1 2 11:7
1		3. Section 1.2: In the 4 th Par added		John Wigint
	outs.	verbiage for factory equipped aircraft.		
2		4. Table 2: Revised Transponder listing		
	- Communication	and added associated transponder note.		
3	TOO A SOLAT	5. Section 1.3.1: Moved transponder		
		config information to transponder note		
		with Table 2.		
3		6. Section 1.4.1, Para 5: Deleted ref to		
		MLESFT 1107 and reworded to add		
		ref to Section 2.1.6.		
4		7. Section 1.4.2, Para 4: Deleted ref to		
		MLESFT 1107 and reworded to add		
		ref to Section 2.1.6.		
13		8. Sections 2.1.3.4 & 2.1.3.5: Deleted ref		
	. ,	to MLESFT 1107 and reworded to add		
	9	ref to Section 2.1 6		
18		9. Section 2.1.5.1, TP Step 2: Max Alt		
		Dev was 70ft.		
20-25		40. Added Section 2.1.6 and Figure 11	7	
26		11. Section 2.2.3: Deleted ref to MLESFT		
		1107 and reworded to add ref to		
		Section 2.1.6.		
26		12. Section 2.2.4: Max Alt Dev was 70ft.		
27	1	13. Section 2.4: Deleted MLESFT 1107 ref		
27		14. Added Section 2.4.5		
29	į	15. Section 4.2.4: TCAS II was TCAS		
	F	By Revision:	January 3, 2006	
5		1. Section 1.4.3 and 1.4.4 – Removed 24	vanian, 5, 2000	N/ 1 m
		Month skin mapping requirement,		1) Helian
		added step (3) and renumbered.		(level
13		2. Section 2.1.4 – Removed 24 month skin		Any Milson
		mapping requirement		
4	G	By Revision:	March 14,2006	
		1. Section 1.4.2 (1) added "or	141011 17,2000	1 11.14
		ST00913WI-D		John Wiginto
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Section 1. Airplane Maintenance

1.1 Introduction

The Learjet 35/35A/36/36A airplane Model Group (herein "LJ35/36" Model Group) has been shown to qualify for operation in Reduced Vertical Separation Minimum (RVSM) Airspace as defined in FAA Memorandum 91-RVSM, "Interim Guidance for Approval of Aircraft for Reduced Vertical Separation Minimum (RVSM) Flight"... This approval is granted based on analysis of the configuration and performance of the air data, automatic altitude control, altitude alerting and altitude reporting systems. These systems must be maintained in accordance with this document, and other current maintenance practices, to ensure initial and continued compliance to RVSM specifications. The processes and procedures contained herein apply only to the airplane Models shown on page i. The operator of a LJ35/36 airframe must first conduct the inspections, tests, and all other requirements for Initial Airworthiness compliance, as listed in Section 1.4.1 (or Section 1.4.2, as appropriate). Upon completion of the Initial Airworthiness tasks, Operational Approval is granted by the Certifying Authority. The Operator of a LJ35/36 airframe must meet with the Certifying Authority to agree on what documentation must be provided to the Certifying Authority to prove compliance with the requirements for Initial Airworthiness. After Initial Airworthiness has been granted, the airplane must be maintained in accordance with the Continued Airworthiness requirements listed in Section 1.4.3 or Section 1.4.4, as appropriate.

1.2 Aircraft Configuration

This STC is not applicable to aircraft modified with Wing Hardpoints, Aft Body Fins, Extended Tip Tanks or Weight Increase. Aircraft with these modifications must incorporate STC ST01122SE-D. Figure 1 shows the configuration and basic data pertaining to the LJ35/36 Model Group. The LJ35/36 Group consists of Model 35/35A/36/36A airframes equipped with either the J.E.T. FC-200 (herein "JET FC-200"), or J.E.T. FC-530 (herein "JET FC-530") autopilot. The RVSM maintenance requirement, for each LJ35/36 airframe, depends on which autopilot is installed. These differences are carefully noted in these instructions. If requirements pertain to BOTH of these airplane types, then no distinction will be made between the JET FC-200 requirements and the JET FC-530 requirements. In addition, all RVSM candidate Learjet Model 35/35A/36/36A group airframes with the Raisbeck Aft Fuselage Stowage Locker STC installation (STC# ST00179SE) are compatible with the RVSM certification.

It is noted that all RVSM-candidate airframes must be either equipped from the factory or modified per AMK 83-5 or AAK 79-10; Installation of Wing Fences, Stall Strips and Boundary Layer Energizers (Softflite). Modification AAK 76-4; Reduced Approach Speed System Kit – Century III, is also required.

The LJ35/36 airplane Group (both autopilot installations) is nominally equipped with two independent air data systems comprised of independent, cross-coupled static sources, Pitot-static probes, and digital air data display units (ADDUs). The Group is also equipped with a single autopilot and RVSM-compliant altitude alerting installation. Two altitude-reporting transponders are also included in LJ35/36's RVSM-specific avionics package. The systems installation and performance have been shown to meet RVSM requirements. The airplane Model Group is equipped with two Garrett TFE-731 engines, and is certified to operate up to FL450 and M_{MO} =0.81. It is noted that the instructions contained in this document pertain to LJ35/36 equipped with these engines. Any engine changes and/or modifications (including hush kits), or aerodynamic configuration changes, may impact RVSM performance. These airframes must be assessed on a case-by-case basis to determine applicability to the LJ35/36 RVSM Group. Contact the STC holder for assistance.

¹ JAA Temporary Guidance Leaflet No. 6 is the international equivalent to 91-RVSM.

Section 1. Airplane Maintenance

1.3 Aircraft System - General Description

Static pressure information is provided to the ADDU's through cross-coupled static sources. The system static sources are located on Pitot-static probes mounted on the left and right sides of the fuselage. The static pressure data is processed & corrected by the ADDUs for display. The autopilot receives air data information from either ADDU via a unique Analog Interface Unit (AIU), while controlling and maintaining the desired flight level during cruise conditions. Each ADDU features RVSM-compliant altitude alert capability while also providing the necessary altitude information to the transponders for altitude reporting. The aircraft system components approved for RVSM operations on the LJ35/36 is provided in Table 1.

The components listed in Table 1 must be maintained in accordance with approved maintenance practices, and the Initial and Continued Airworthiness Instructions presented in this document.

Component	Manufacturer & Model	Part Number	
#1 Air Data Display Unit	IS&S	9D-80130-1	
#2 Air Data Display Unit	IS&S	9D-80130-1	
Analog Interface Unit	IS&S	9B-81040-1	
Automatic Flight Control System FC-200	J.E.T. FC-200	N/A	
Autopilot Computer	J.E.T. FC-200	501-1108- <u>03</u> and higher	
Autopilot Controller	J.E.T. FC-200	501-1107- <u>01</u> and higher	
Automatic Flight Control System FC-530	J.E.T. FC-530	N/A	
Autopilot Computer	J.E.T. FC-530	501-1356- <u>06</u> and higher	
Autopilot Control Panel	J.E.T. FC-530	501-1337- <u>01</u> and higher	
Altitude Alerter	IS&S	9D-80130-1	
#1, #2, #3 Transponder	Various*		
Pitot-static probe – Left Side	Rosemount	0856NA1	
Pitot-static probe – Right Side	Rosemount	0856NA2	

Table 1. Required Avionics/Air Data Components for RVSM Operation: Learjet 35/35A/36/36A

Note: Learjet 35/35A/36/36A airplanes may be equipped with EITHER the JET FC-200 or JET FC-530 autopilot installation.

*The transponder units may vary provided the configuration meets or exceeds the requirements of one of the following Technical Standard Orders (TSO):

TSO-C66a or TSO-C74c (Mode C) TSO-C112 (Class 2a; Mode S) TSO-C112a (Mode S)

If one transponder is installed in the aircraft, it must be capable of reporting from both the Pilot's and the Copilot's air data system.

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1.3.1 Avionics Components Required for RVSM Compliance ~ Special Limitations

This Supplemental Type Certificate does not constitute approval for <u>installation</u> of the components listed in Table 1. This STC is <u>invalid</u> unless these components have been installed and certified by the appropriate Certifying Authority as a separate, independent approval (see Section 1.4 for specific installation requirements for the RVSM-specific avionics components). However, if the airplane is appropriately equipped with a certified installation of the components listed in Table 1, and is maintained in accordance with the maintenance instructions presented in this document, <u>the airframe is RVSM-compliant</u>. Replacement of the listed equipment must be accomplished with units of identical part number only. If alternate avionics equipment is installed, or is intended to be installed, a re-evaluation of the configuration for equivalent RVSM performance must be conducted and approved. Contact the STC holder for assistance.

1.4 Requirements for RVSM Initial and Continued Airworthiness

The following inspections, tests and/or procedures must be included in the basic maintenance plan for LJ35/36 airframes, to ensure Initial and Continued Airworthiness for RVSM operation. Both the Pilot and CoPilot's systems must be maintained in accordance with these instructions. The information presented in this Section supplements or supercedes the basic airplane manuals only in those areas specified. Normal air data system maintenance, as specified in the Maintenance Manual (MM), component maintenance manual, and/or as required by Federal Aviation Regulations, must be followed as required. For maintenance procedures pertaining to the airframe, its systems, and avionics equipment not covered in these instructions, follow the manufacturer's recommendations.

1.4.1 Servicing Information for Initial Airworthiness Airplanes Equipped with the JET FC-200 Autopilot

The following inspections/tests are required for RVSM Initial Airworthiness approval for the ALJ35/36 airplanes equipped with the JET FC-200 autopilot:

- (1)Implement STC number ST01199NY-D for the IS&S air data equipment installation.
- (2) Conduct the Rosemount Pitot-static probe installation in accordance with STC ST00321WI-D.
- (3) Conduct an air data system accuracy check using accurate ground test equipment, as described in Section 2.1.1. Verify the air data system errors are within specified RVSM tolerances.
- (4) Conduct a visual inspection of the RVSM Critical Region as described in Section 2.1.2. Mark the RVSM Critical Region as specified.
- (5)Conduct a Pitot-static probe inspection and installation angle measurement as described in Section 2.1.3. Verify the measured angles are within the tolerances specified in Section 2.1.6. Confirm the Pitot-static probes have less than 10,000 hours of operational service.

Probe replacement is required for probes with more than 10,000 hrs.

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- (6) Conduct a skin waviness measurement to verify the skin contours surrounding the Pitot-static probes are RVSM-compliant (Section 2.1.4). A special tool is required to conduct the skin contour measurements, and the measurement procedure must be conducted by trained personnel. If the skin contours are determined to be acceptable, form AMI-LJ3536-SWA shall be provided to the Operator as proof of compliance.
- (7) Conduct the autopilot maintenance and rigging checks provided in Section 2.1.5. Ensure the listed Service Bulletins have been incorporated.
- (8) Revise the Minimum Equipment List, as discussed in Section 4.1.

Tasks (1) - (7) to be conducted at ambient temperature with the airplane resting on its landing gear, unless otherwise instructed in the above tasks. There are no jacking or leveling requirements to conduct these inspections, except as noted in Section 2.1.3 and 2.1.6.

1.4.2 Servicing Information for Initial Airworthiness Airplanes Equipped with the JET FC-530 Autopilot

The following inspections/tests are required for RVSM Initial Airworthiness approval for the LJ35/36 airplanes equipped with the JET FC-530 autopilot:

- (1) Implement STC number ST00913WI or ST00913WI-D for the IS&S air data equipment installation.
- (2) Conduct an air data accuracy check using accurate ground test equipment, as described in Section 2.1.1. Verify the air data system errors are within specified RVSM tolerances.
- (3) Conduct a visual inspection of the RVSM Critical Region as described in Section 2.1.2. Mark the RVSM Critical Region as specified.
- (4) Conduct a Pitot-static probe inspection and installation angle measurement as described in Section 2.1.3. Verify the measured angles are within the tolerances specified in Section 2.1.6. Confirm the Pitot-static probes have less than 10,000 hours of operational service. Probe replacement is required for probes with more than 10,000 hrs.
- (5) Conduct a skin waviness measurement to verify the skin contours surrounding the Pitot-static probes are RVSM-compliant (Section 2.1.4). A special tool is required to conduct the skin contour measurements, and the measurement procedure must be conducted by trained personnel. If the skin contours are determined to be acceptable, form AMI-LJ3536-SWA shall be provided to the Operator as proof of compliance.
- (6) Conduct the autopilot maintenance and rigging checks provided in Section 2.1.5.
- (7) Revise the Minimum Equipment List, as discussed in Section 4.1.

Tasks (1) - (6) to be conducted at ambient temperature with the airplane resting on its landing gear, unless otherwise instructed in the above tasks. There are no jacking or leveling requirements to conduct these inspections, except as noted in Section 2.1.3 and 2.1.6.

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Section 1. Airplane Maintenance

1.4.3 **Servicing Information for Continued Airworthiness** Airplanes Equipped with the JET FC-200 Autopilot

After Initial Airworthiness approval has been granted, the following tasks must be conducted every 24 months in service:

- (1) Verify the avionics components listed in Table 1 are installed and operational.
- (2)Tasks (3) - (5) listed in Section 1.4.1. Verify the markings identifying the RVSM Critical Region are in good condition. Replace/rework if necessary.
- Inspect the skin for damage in the RVSM Critical Region, as described in section 2.1.2. (3)
- Conduct a simple in-flight altitude hold check during cruise conditions, as described in Section 2.1.5.1. Verify the airplane can maintain the specified RVSM altitude hold tolerances.

Servicing Information for Continued Airworthiness Airplanes Equipped with the JET FC-530 Autopilot

After Initial Airworthiness approval has been granted, the following tasks must be conducted every 24 months in service:

- (1) Verify the avionics components listed in Table 1 are installed and operational.
- (2) Tasks (2) (4) listed in Section 1.4.2. Verify the markings identifying the RVSM Critical Region are in good condition. Replace/rework if necessary.
- (3) Inspect the skin for damage in the RVSM Critical Region, as described in section 2.1.2.
- (4) Conduct a simple in-flight altitude hold check during cruise conditions, as described in Section 2.1.5.1. Verify the airplane can maintain the specified RVSM altitude hold tolerances.

General Servicing Information for the Avionics Components

Avionics components of identical part number may be interchanged freely during the service lifetime of this airframe. Following replacement of the ADDU's, follow the air data system test procedures presented in Section 2.1. If alternate equipment part numbers are to be installed, the units must be analyzed on a system level to determine if the new components are acceptable for RVSM. This document must be revised accordingly. Contact the STC holder for assistance.

General Servicing Information for the Pitot-static probes

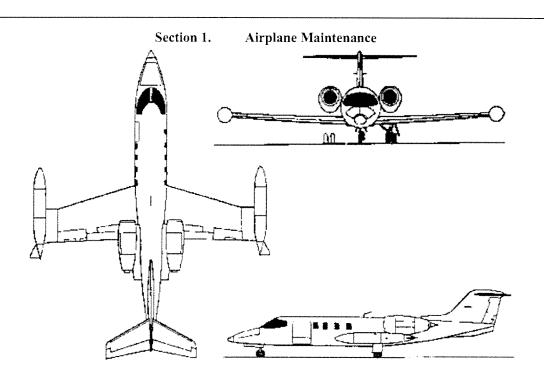
If the Pitot-static probes are removed and/or replaced during the 24-month service cycle, the following tasks must be completed:

Airframes equipped with the JET FC-200 autopilot: Tasks (4) and (5) of Section 1.4.1. Airframes equipped with the JET FC-530 autopilot: Tasks (3) and (4) of Section 1.4.2.

All airframes: Verify the markings identifying the RVSM Critical Region are in good condition.

All airframes: If damage is sustained within the RVSM Critical Region, repair as specified in the MM. The skin contour inspection detailed in Section 2.1.4 must be repeated and the data sent to the STC holder for immediate analysis, to verify RVSM integrity.

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	I	Learjet 35/35A/3	36/36A Model Gr	oup	
		35	35A	36	36A
Dimensions					
	Height	12.25 ft	12.25 ft	12.25 ft	12.25 ft
	Length	48.67 ft	48.67 ft	48.67 ft	48.67 ft
	Wing Span	39.50 ft	39.50 ft	39.50 ft	39.50 ft
Maximum We	ights				
	Ramp	18,500 lbs	18,500 lbs	18,500 lbs	18,500 lbs
	Takeoff	18,300 lbs	18,300 lbs	18,300 lbs	18,300 lbs
	Landing	15,300 lbs	15,300 lbs	15,300 lbs	15,300 lbs
	Zero Fuel	13,500 lbs	13,500 lbs	13,500 lbs	13,500 lbs
Engines					
_	2 Garrett	TFE-731	TFE-731	TFE-731	TFE-731
	Thrust/engine	3,500 lbs	3,500 lbs	3,500 lbs	3,500 lbs
Performance					
	M_{MO}	0.81 Mach	ALL MODEL	.S	
	14363	(0.79 Mach ~	UK-configured ai	rcraft)	
Ceiling	45,000 ft		ALL MODE	LS	
Applicable Airci	aft	002 - 066	067 - 676	001 - 017	018 - 063

Figure 1. Learjet Model 35/35A/36/36A Specifications Summary

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Section 2. Maintenance Instructions

2.1 Maintenance Schedule and Required Inspections/Tests

A LJ35/36 airframe must be maintained in accordance with the instructions provided in this Section, to ensure initial and continued compliance to RVSM systems and performance requirements. These inspections/tests include an air data system accuracy check, visual inspection of the region surrounding the Pitot-static probes ("RVSM Critical Region"), a Pitot-static probe condition inspection and installation angle check, a skin contour inspection, and special RVSM autopilot maintenance/operational tests and procedures. The maintenance intervals and required tasks are summarized in Section 1.4 and Section 3. All air data system maintenance requirements, as specified in the MM, must also be followed.

2.1.1 Air Data System Maintenance Procedures

The air data display units must be maintained in accordance with the instructions provided in this document, airplane MM and Federal Aviation Regulations (FAR)'s. However, these components must also meet the accuracy tolerances shown in Table 2, when wired together as a system. This requirement is in addition to the test specification identified in FAR Part 43, Appendix E.

Test Procedure

Equipment Required: Digital Air Data Test Equipment

Note: Combined accuracy/repeatability specification for the test equipment cannot exceed ±25' for the test altitude range shown in Table 2.

This test may be performed on the aircraft using calibrated test equipment. This test is to be performed for both Pilot's and CoPilot's systems.

- 1. Perform a Pitot-static system leak check as described in Steps (a)-(d), below. <u>Caution</u>: To avoid damage to the aircraft instruments, follow all cautions and warnings in the Maintenance Manual.
 - a. Apply pressure to the Pitot system (very slowly until the airspeed indicator indicates 80 knots). Increase airspeed to 300 knots at a rate not to exceed 20 knots per second.
 - b. Turn off pressure, sealing off the system. The system pressure drop in five (5) minutes shall be less than 5 knots on the airspeed indicator.
 - c. Set the airspeed to 200 knots on the test set and apply vacuum to the Pitot-static system until the tester altimeter indicates and altitude of 28,000 feet.
 - d. Shut off vacuum source at 28,000 feet and seal off the Pitot-static system. System leakage in one minute shall not cause tester altimeter to indicate less than 27,640 feet or 360 feet in one minute.
- 2. After the leak check is completed, continue the air data test procedure by first verifying that the altitude indicator baro is set to 29.92 in Hg (1013.25 mb).
- 3. Apply the reference altitude and Mach (or airspeed) for the condition.
- 4. Record the altitude displayed by the Pilot and CoPilot's altimeters.
- 5. Verify that indicated altitudes are within allowable tolerances.
- 6. Repeat steps 3 through 5 for all the conditions listed in Table 2.

1.6 kg

29,957 -43 ft

Section 2. **Maintenance Instructions**

Condition Number	Mach Number	Airspeed (kts)	Applied Altitude (feet)	Pilot's Altitude (feet)	CoPilot's Altitude (feet)	Nominal Altitude (feet)	T	oleran	ed Output]
1	0.453	170.0	29000	28 <i>940</i>	28920	28944	28868	to	29020
2	0.581	220.0	29000	28920	28920	28915	28839	to	28991
3	0.704	270.0	29000	28920	28920	28919	28843	to	28995
4	0.799	310.0	29000	28%0	Z8960	28969	28893	to	29045
5	0.575	190.0	35000	34900	34900	34920	34844	to	34996
6	0.631	210.0	35000	34900	34900	34916	34840	to	34992
7	0.687	230.0	35000	34900	34900	34920	34844	to	34996
8	0.742	250.0	35000	34920	37920	34936	34860	to	35012
9	0.795	270.0	35000	34960	34960	34968	34892	to	35044
10	0.687	200.0	41000	40900	40900	40921	40845	to	40997
11	0.719	210.0	41000	40920	40920	40928	40852	to	41004
12	0.750	220.0	41000	40990	90940	40940	40864	to	41016
13	0.780	230.0	41000	40950	40950	40957	40881	to	41033

Table 2. Air Data System RVSM Functional Test Specification for Learjet 35/35A/36/36A

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Section 2. Maintenance Instructions

2.1.2 Visual Inspection of the Region Surrounding the Pitot-static probes (RVSM Critical Region)

Equipment Required: None

Note: Small markings must be applied to the corners of the RVSM Critical Region to allow for easy identification. These markings may be ANY shape, size or color; the only requirement is that they are visible to the Pilot's during a pre-flight inspection. Figure 2 defines the RVSM Critical Region. Figure 3 illustrates an example of a suitable marking and its positioning on the skin surface.

Prior to all flights in RVSM airspace, the operator must visually inspect the RVSM Critical Region for obvious damage or deformation to the surrounding skin, perhaps due to walkway damage, foreign object damage, service vehicles, etc. Examples of damage and/or anomalies on the skin surface in the RVSM Critical Region are listed in Table 3. This inspection may be performed by the flight crew as referenced in the AFMS.

Damage Examples				
Example 1	Creases, dents, heavy scratches or bulges in the skin			
2	Non-flush or missing fasteners			
3	External repairs and/or doublers			
4	Non-flush application of aerodynamic sealant			

Table 3. Examples of Skin anomalies in the RVSM Critical Region

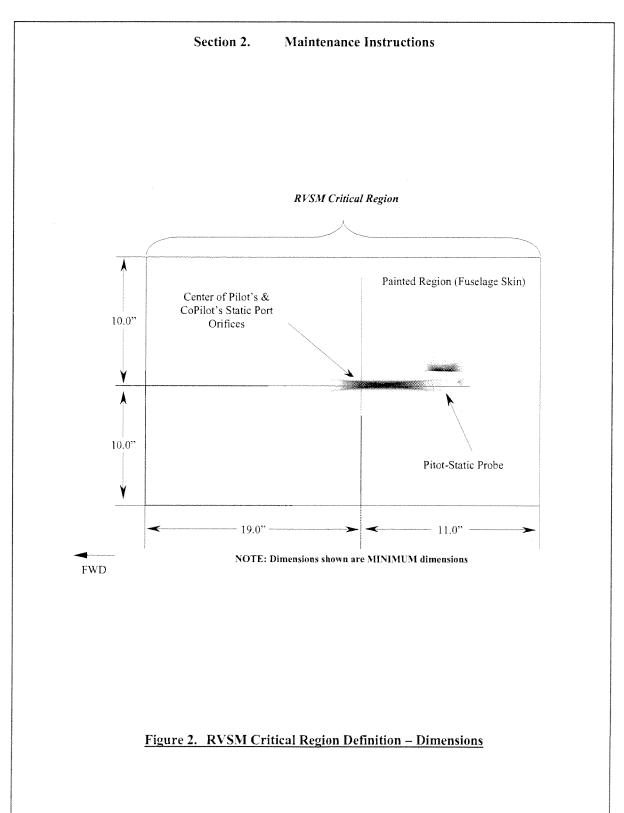
If damage or surface irregularities are found, repair the damage in accordance with the MM and/or Structural Repair Manual (SRM). Conduct the skin contour measurement discussed in Section 2.1.4.

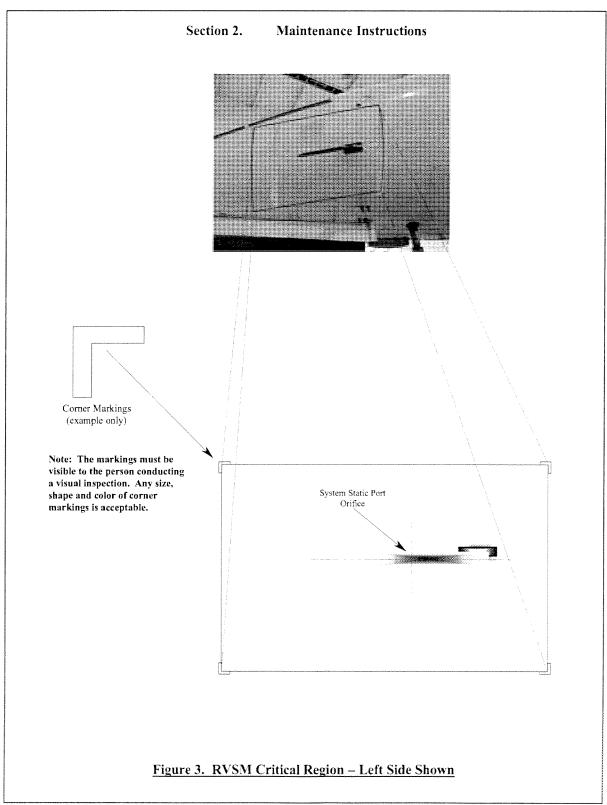
2.1.2.1 Repainting of aircraft

An aircraft does NOT require the RVSM skin contour measurement if it has been repainted. However, it must be ensured that there are no paint runs in the RVSM critical area. Paint runs are NOT acceptable. Note: Paint chips around the rivet heads and scratches are acceptable.

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2.1.3 Inspection of the Pitot-static probes for RVSM Compliance

The Pitot-static probes must be inspected initially, and periodically, to ensure the condition is acceptable for RVSM operation. The inspection consists of a general visual inspection, detailed conformity inspection, and installation angle checks. It is noted that sanding, probing or scarfing of the probes in any way, with or without any implement, is not an acceptable practice for verifying and/or inspecting overall Pitot-static probe condition.

No.	Equipment Required:	Feeler	gages	or	equivalent	tool	for	measuring	small	geometric
	anomalies on the probe surface.									

General Condition Inspection

The Pitot-static probes should be inspected for physical damage to the contoured surfaces. Check for foreign material/obstruction in the static port orifices, drain hole and Pitot opening. Bent and/or twisted Pitot-static probes must be replaced immediately. This inspection may be performed by the flight crew as referenced in the AFMS.

2.1.3.2 Inspection of the General Condition of the Probe Tip

The tip of the Pitot-static probe should be inspected as discussed below. The Pitot-static probe should be replaced if the unit fails any of the following inspections:

- The leading edge lip of the Pitot opening should be sharp. New tubes are sharpened to a tolerance of 0.022" ± 0.002" flat. The Pitot-static probe must be removed if the lip has eroded or been dented to the extent that the lip has a flatness that exceeds $0.022^{\circ} \pm 0.005^{\circ}$. Figure 4 illustrates this condition.
- The outer surface of the lip edge must be smooth. The lip edge cannot be curled or flared outward (Figure 5). Slide your fingernail along the outer surface at the tip to detect this condition. Replace the tube if this condition exists.
- Remove the tube if indentations on the lip deviate more than 0.030" from normal tip diameter. Small inward dents on the lip (Figure 6) that do not affect the roundness of the Pitot opening are acceptable. The dent at any location around the opening must not affect more than one-fifth (20%) of the circumference. Damage of this type may be repairable. Return units removed from service to the Pitot-static probe manufacturer (B.F. Goodrich -Rosemount Aerospace) for possible repair.
- It is permissible for the leading edge lip to have small nicks or chips as shown in Figure 7. Replace the tube only if two or more nicks are between 0.025" and 0.035" deep, or if any one nick exceeds 0.035" deep.

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2.1.3.3 Aerodynamic Contour Condition Inspection

The aerodynamic contour of the Pitot-static probe is critical to the overall performance of the air data system. The following inspections must be completed to verify the probe aerodynamic condition is acceptable for RVSM operation:

- (a) Check the static pressure ports to make sure their edges remain perpendicular to the unit's machined contoured surface. Rounded or raised static port edges should not exceed **0.003** inches (0.003"). See Figure 8.
- (b) Check for scratches, nicks or surface irregularities deeper than 0.015 inches (0.015") located within 0.50 inches (0.50") of the static port orifices.
- (c) Check for defects exceeding **0.025 inches** (**0.025**") over the rest of the head, and exceeding **0.125 inches** on the strut section of the unit.

2.1.3.4 Inspection of the Pitot-static probe Installation Angles

The Pitot-static probe orientation on the airplane is critical to ensure the aerodynamic compensation is correct for RVSM operation. The probe pitch, yaw and roll angles must be measured to verify the probe installation is acceptable. The probe alignment check procedure contained in Section 2.1.6 provides a suitable method for checking the probe installation for RVSM compliance. The probe installation tolerances contained in Section 2.1.6 are acceptable for RVSM.

2.1.3.5 Pitot-static probe replacement

If one, or both, Pitot-static probes are replaced with new probes, install the probe(s) per 34-11-01 of the maintenance manual and align the probes in accordance with Section 2.1.6.

2.1.4 Skin Contour Measurements in the RVSM Critical Region

Equipment Required: AeroMech Skin Contour Measurement Tool; A1M-LJ-GE

To ensure geometric variation around the Pitot-static probes is acceptable for RVSM compliance, a specialized skin contour inspection of the RVSM Critical Region is required. This inspection must be conducted by trained personnel, using special equipment designed for the Learjet Model 35/35A/36/36A (Figure 9). The measurement procedure must be conducted in accordance with AeroMech Technical Specification AMI-TP-LJ-9903 (latest revision). If the skin contour is found to be acceptable for RVSM airworthiness approval, form AMI-LJ3536-SWA, "Reduced Vertical Separation Minimum (RVSM); Airframe Conformity Inspection Summary" (Figure 10) shall be issued to the operator as proof of compliance.

Form AMI-LJ3536-SWA shall be issued after the necessary skin contour measurements are obtained initially or upon re-measurement following damage/repair within the RVSM Critical Region. If the skin contours do not meet RVSM requirements, the STC holder shall recommend changes, such as repair alternatives, operational restrictions, and/or avionics retrofits, to ensure the overall altimetry system error levels are acceptable for RVSM operations.

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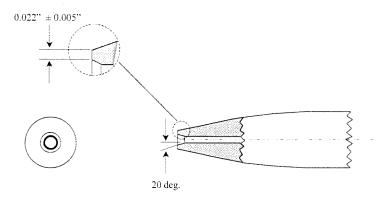


Figure 4. Pitot-static probe lip sharpness requirements

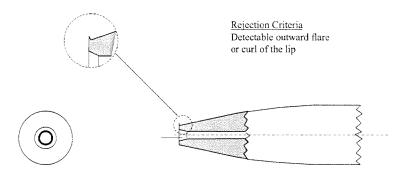


Figure 5. Pitot-static probe lip flare/curl

Rejection Criteria

- 1. Indentation exceeding 0.030" of normal tip diameter
- 2. Indentation affecting more than 20% of tip circumference

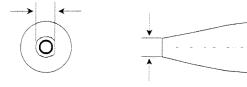


Figure 6. Pitot-static probe lip indentation
Section 2. Maintenance Instructions

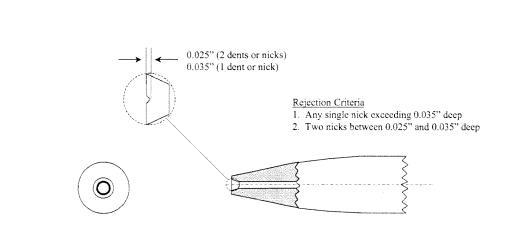


Figure 7. Requirements for nicks/dents on the Pitot-static probe tip

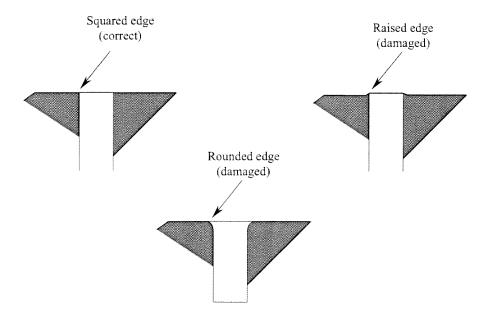
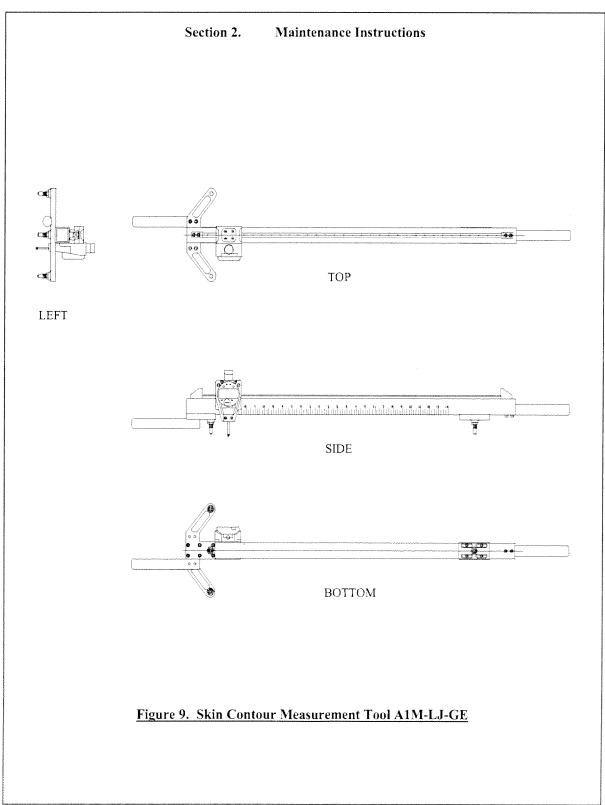


Figure 8. Static Port orifice edge condition



Reduced Vertical Separation Minimum (RVSM) <u>Airframe Conformity Inspection Summary</u>

Skin Contour Analysis for RVSM Compliance Airplane Model: Learjet 35/35A/36/36A

Aircraft Serial Number: XX-YYY

The airplane designated above has been inspected and analyzed in accordance with FAA approved procedures for RVSM airworthiness compliance. The results of the RVSM skin contour analysis are provided in Table 1.

Air Data System	RVSM Status
Pilot	PASS
CoPilot	PASS

Table 1. Results of Skin Contour Analysis for RVSM Compliance Learjet model ZZ SN XX-YYY

This airplane meets t	the RVSM skin co	ntour requirements for	or Initial airworthiness
-----------------------	------------------	------------------------	--------------------------

A mmarra d have	_
Approved by:	Date:



Figure 10. Skin Contour Conformity Inspection Form AMI-LJ3536-SWA

2.1.5 Autopilot Adjustments for RVSM Compliance

The Learjet 35/35A/36/36A airplanes require specialized autopilot maintenance procedures to ensure the altitude hold capability is acceptable for RVSM operation.

Airplanes Equipped with the JET FC-200 Autopilot:

The JET FC-200 autopilot computer must be a -03 or above. The following Service Bulletins related to the pitch board must be complied with to update the system to the RVSM modification level:

JET SB502-1079-3A	JET SB501-1108-11B
JET SB501-1108-6	JET SB501-1108-12
JET SB501-1108-7	JET SB501-1108-13
JET SB501-1108-9A	JET SB501-1108-14

In addition to implementing the Service Bulletins listed above, conduct the following tasks:

- (1) Inspect the Pitch Servo for proper torque, and ensure all Service Bulletins are implemented.
- (2) Check the Pitch Capstan and cables per the airplane MM.
- (3) Remove and bench test the stabilizer actuator and verify proper operation. Repair as necessary and re-install.
- (4) Check elevator cables for proper tension.

Airplanes equipped with the JET FC-530 autopilot:

- (1) Inspect the Pitch Servo for proper torque, and ensure all Service Bulletins are implemented.
- (2) Check the Pitch Capstan and cables per the airplane MM.
- (3) Remove and bench test the stabilizer actuator and verify proper operation. Repair as necessary and re-install.
- (4) Check elevator cables for proper tension.

2.1.5.1 Autopilot (Altitude Hold) Performance Test

RVSM operation requires that the autopilot system maintain selected altitude to within ± 65 feet, during normal cruise flight. Perform autopilot checks and/or maintenance in accordance with the instructions provided in this document and airplane MM. In addition, perform the following inflight altitude hold performance test every 24 months.

Test Procedure

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Equipment Required:

Data Tabulation Sheets (Table 4)

- 1. During normal cruise flight at an altitude between FL290 and FL410 (Baro 29.92 in Hg or 1013mb) activate altitude hold on autopilot controller. Allow the aircraft to stabilize on the selected altitude. The air must be stable (no turbulence) during this check.
- 2. With the airplane in the normal (cruise) mode with altitude hold engaged, record the data from the primary displays (using Table 4) every 5 minutes for a flight segment up to 1 hour in length. On longer flights, the data may be recorded every 10 minutes. The maximum altitude deviation should not exceed ± 65 ft.

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RVSM Autopilot Performance Check Table Cruise Conditions

Airplane:	Date:
Enroute to:	Pilot:

Time (Hours:Min)	Pilot's Altimeter	CoPilot's Altimeter	Pilot's Mach	CoPilot's Mach	Pilot's KCAS	CoPilot's KCAS
0:00						
0:05						
0:10			**************************************			
0:15						
0:20		***************************************				
0:25						
0:30						
0:35						
0:40						
0:45	-					
0:50						
0:55						
1:00						

Table 4. Autopilot Performance Tracking Form – Cruise Test

N	$\overline{}$	ŕ	_	c	
14	U	ι	u	o	

2.1.6 Pitot-Static Probe Angle Alignment

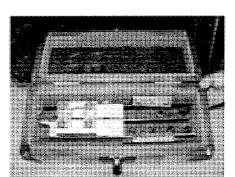
The pitot-static probe angle alignment on the airplane is critical to ensure the aerodynamic compensation is correct for RVSM operation. The probe pitch, yaw and roll angles must be measured to verify the probe installation is acceptable.

Test Procedure

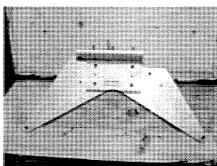
Equipment Required: SPI-31-040-9 Digital Mechanical Inclinometer - Spi-Tronic

Model Pro 3600 or equivalent accuracy (.XX)

TN623626 Pitot Probe Inspection Tool TN624880 Frame 1 Leveling Tool Tool

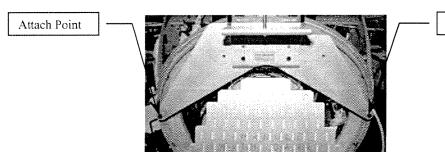


TN623626, Pitot Probe Inspection Tool



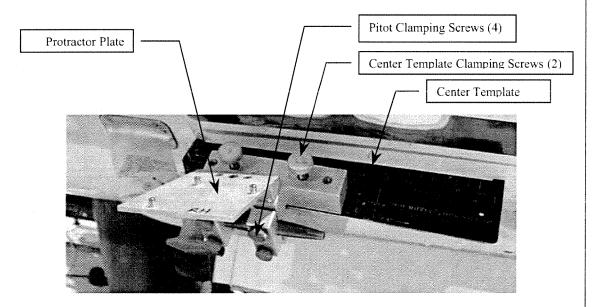
TN624880,Frame 1 Leveling Tool

- 1. Record left and right probe part numbers, serial numbers and total number of probe hours in the Probe Alignment Data Form (Figure 11).
- 2. Level aircraft per Maintenance Manual instructions.
- 3. Remove radome.
- 4. Align TN624880 Frame 1 Leveling Tool with the two existing tooling holes on the forward side of Frame #1 and attach.

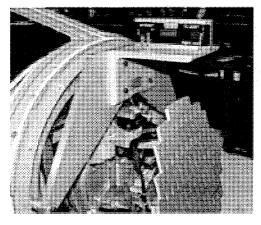


Attach Point

5. Attach TN623626 Pitot Probe Inspection Tool onto the barrel of the right pitot-static probe, indexing it to the vane of the probe with the center template loosely attached. Locate the center template against skin contour, aligning it with the aft skin joint and indexing it to the aircraft skin and hand tighten the clamping screws. Then Attach right protractor plate and secure, as shown below:

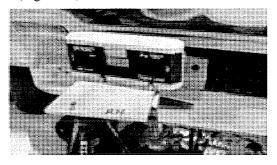


6. Position the digital protractor (in the Pitch axis) on TN624880 Frame 1 Leveling Tool (as shown below) and zero the protractor.

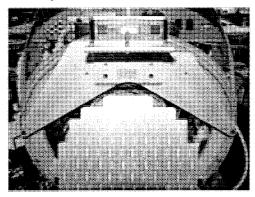


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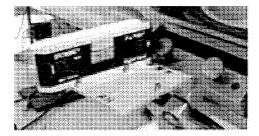
7. Place the digital protractor on the right protractor plate of the TN623626 Pitot Probe Inspection Tool, as shown below. Measure and record the pitch angle in the Probe Alignment Data Form (Figure 11).



8. Position the digital protractor (in the Roll axis) on TN624880 Frame 1 Leveling Tool (as shown below) and zero the protractor.

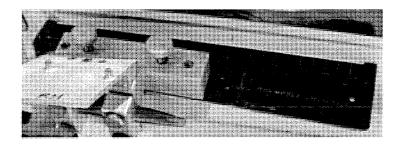


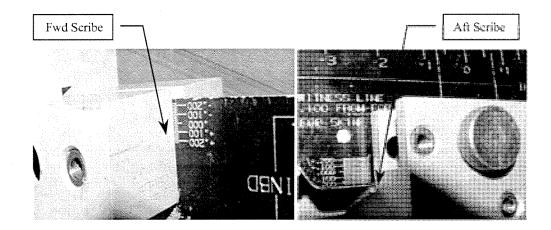
9. Place the digital protractor on the right protractor plate of the TN623626 Pitot Probe Inspection Tool, as shown below. Measure and record the roll angle in the Probe Alignment Data Form (Figure 11).



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10. Verify Middle Template is secured and the tabs are positioned on the contour. Measure the Yaw readings at the fore & aft scribe lines and record in the Probe Alignment Data Form (Figure 11).





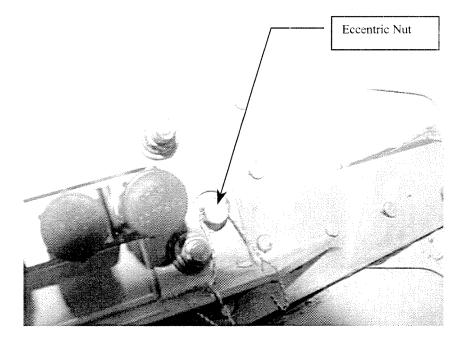
- 11. Repeat Steps 5 through 10 for opposite left pitot-static probe alignment check.
- 12. Complete Probe Alignment Data Form (Figure 11) to determine if probes are in tolerance. One probe may exceed the allowable misalignment, as long as the total misalignment (left probe misalignment + right probe misalignment) does not exceed the specified limits.

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- 13. If adjustments are required, adjust probes as follows:
 - a. Remove equipment in the nose bays as required to gain access to the Eccentric Nut.
 - b. Loosen the 4 mounting screws on pitot probe.
 - c. Remove safety wire and turn Eccentric Nut as required.

Note: When making adjustments retighten mounting screws prior to checking and recording readings. Adjustment to probes using eccentric nut "Will" affect pitch and can affect roll, and yaw probe alignment.

- d. Tighten the 4 mounting screws on pitot probe.
- e. Safety wire Eccentric Nut.
- f. Recheck probe angle alignment.
- g. Reinstall equipment previously removed.



Section 2. Maintenance Instructions								
Date: <u>5-14-1</u>	Date: <u>544-13</u> Aircraft: <u>N22m \$</u>							
A/C Leveling Meth	od:							
Probe Information			F		T			
T 0	Part N	<u>umber</u>		Number	Hours			
Left Pitot-Static Probe	856 NA	1 Cest	2/902	. 7				
Right Pitot-Static Probe	856 Na	2 Right	221699					
Probe Barrel Ali	gnment (Pitch)							
	Measured M Probe Tip U Probe Tip I	lp = + angle		e Tolerance -5.00° (Dn)				
Left Pitot-Static Probe	4.21		± 0.50° (±	30minutes)				
Right Pitot-Static Probe	_ , 36		± 0.50° (±					
Total Misalignment (= Left + Right)			≤ 1.00° (≤					
Probe Barrel Ali	anment (Poll)		*					
1100c Barrer An	Measured M	fisalignment	A 11 1 1	T 1				
	Probe Angle Probe Angle	Up = + angle	Allowable Nominal =					
Left Pitot-Static Probe	04		± 1.5° (±					
Right Pitot-Static Probe	- ,92	,	± 1.5° (±					
Total Misalignment (= Left + Right)			≤ 3.0° (≤ 1					
Probe Barrel Ali	Probe Barrel	Probe Barrel	Yaw Variance	Probe Yaw	Allowable Yaw			
	Standoff Dist Tool Fwd Edge	Standoff Dist Tool Aft Edge	Distance =Fwd Edge Dist -Aft Edge Dist	Misalignment $= Tan^{-1} \left(\frac{YawVarDist}{5.94"} \right)$	Misalignment (Nom Probe Yaw -9.7° (Inbd))			
Left	2	1.6	2		± 1.50°			
Pitot-Static Probe	(Fwd-Reading)	(Aft-Reading)	(Difference)	(Angle-Degs)	(± 90 minutes)			
Right Pitot-Static Probe	2 (Fwd-Reading)	(Aft-Reading)	(Difference)	(Angle-Degs)	± 1.50° (± 90 minutes)			
<u></u>	9/ 1	Total:	(Difference)	(Angle-Degs)	≤ 3.00° (≤ 180 minutes)			
Figure 11: Probe Alignment Date Form								

Figure 11: Probe Alignment Data Form

Troubleshooting Information 2.2

The following information provides instructions for corrective action upon failure of the inspections/tests presented in Section 2.1.

2.2.1 Air Data System

If the air data system is found to exceed the requirements of Table 2, service the Pitot-static system as shown in the MM. Note that drains have been known to stick in the "UP" position due to the existence of excessive paint, and such a condition would cause excessive leakage in the Pitot-static lines. Check and drain the Pitot-static lines, conduct a leak check, and repeat the RVSM air data ground test in accordance with the procedures shown in Section 2.1.1. If the requirements of Table 2 are again exceeded, service the aberrant system as necessary to reduce the leak rate, and re-test the system per Section 2.1.1. If the test again fails, contact the airplane manufacturer for assistance.

RVSM Critical Region Inspection

If a visual inspection of the RVSM Critical Region (per Section 2.1.2) indicates that damage, deformation, repairs, etc. exists that may impact air data system accuracy, then the operator should conduct inspection/repairs per the MM and/or SRM. All repairs within the RVSM Critical Region must remain internal. If internal repairs are not possible, provide the STC holder with the desired repair scheme. After all repairs in the RVSM Critical Region are completed (internal OR external), a skin contour inspection must be conducted in accordance with Section 2.1.4.

Pitot-static probe Inspection

If the Pitot-static probe condition fails the inspection criteria provided in Section 2.1.3, service or replace the Pitot-static probes as specified. If the Pitot-static probe installation angles are measured in accordance with Section 2.1.3, and the probes are found to be outside the allowable tolerance, adjust the Pitot-static probes in accordance with Section 2.1.6, and repeat the measurement process. If the probes are still outside the allowable installation angle tolerances, the performance of the probes must be re-evaluated on a system level, to determine feasibility for RVSM compliance. Contact the STC holder for assistance.

Autopilot (Altitude Hold) Check 2.2.4

If the autopilot cannot maintain altitude to within ±65 feet from the selected cruise altitude, per the procedure of Section 2.1.5.1, repeat the autopilot check once again, ensuring the Mach number remains constant during the test, and the air remains stable during the entire check. If the check still fails, conduct autopilot component maintenance and/or servicing checks using appropriate adjustment procedures listed in Section 2.1.5. Repeat the test discussed in Section 2.1.5.1, as required, to ensure compliance with RVSM autopilot altitude hold requirements.

Installation/Removal of RVSM-relevant components

Installation and/or removal of all avionics equipment should be conducted in accordance with current approved maintenance practices. An air data systems check (per Section 2.1.1) shall be conducted upon removal and/or installation of the air data display unit.

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2.4 Summary of Special Tools Required for RVSM-Specific Maintenance

A summary of the tooling required to successfully implement this STC is provided below. This list does NOT include any rigging devices or adjustment tooling necessary to conduct the autopilot adjustment procedures and/or Service Bulletins listed in Section 2.1.5. Tooling requirements for these two maintenance items may be obtained from the airplane manufacturer (Learjet, Inc.).

2.4.1 Air Data Systems Check

Equipment Required: Digital Air Data Test Equipment (Note: Combined accuracy/repeatability specification for this equipment cannot exceed ±25' for the test altitude range shown in Table 2).

2.4.2 Pitot-static probe condition inspection

Equipment Required: Feeler gages or equivalent tool for measuring small geometric anomalies on the probe surface.

2.4.3 RVSM Critical Region Skin Contour Measurement

Equipment Required: AeroMech Skin Contour Measurement Tool, A1M-LJ-GE (Figure 9)

Note: Special training required.

2.4.4 Autopilot (Altitude Hold) Performance Test

Equipment Required: Data Tabulation Sheet (Table 4)

2.4.5 Pitot-Static Probe Angle Alignment Procedure

Equipment Required: Digital Mechanical Inclinometer - Spi-Tronic Model Pro 3600

or equivalent accuracy (.XX)

Pitot Probe Inspection Tool, TN623626 Frame 1 Leveling Tool, TN624880

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Section 3. Airworthiness Limitations

This Section contains a summary of the required inspections & tests, and associated maintenance intervals, to ensure Initial and Continued Airworthiness for RVSM compliance. This Airworthiness Limitations Section is FAA Approved and specifies maintenance required under §43.16 and §91.403 of the Federal Aviation Regulations unless an alternate program has been FAA approved. Both the Pilot and CoPilot's systems must be inspected and verified to the tolerances presented in this document. It is noted that there are no Structural Airworthiness Limitations associated with RVSM airworthiness compliance of the Learjet 35/35A/36/36A Group.

- A) Initial airworthiness is contingent on performing the inspections and tests listed in Section 1.4.1 or Section 1.4.2 (as appropriate), in accordance with the instructions provided in Section 2.
- B) Continued airworthiness is contingent on performing the following inspections:
 - 1. Every 24 months, perform the inspections/tests specified in Section 1.4.3 or Section 1.4.4, as appropriate.
 - 2. If an alternate air data, altitude alert, or autopilot component installation is desired after Initial Airworthiness approval has been granted, the new avionics configuration must be approved for RVSM operation. The operator must contact the STC holder to secure approval of the new avionics configuration. See Section 1.4.5.
 - 3. If the Pitot-static probes are removed and/or replaced, a Pitot-static probe inspection and installation angle check is required, per Section 1.4.6.
 - 4. If the RVSM Critical region sustains damage, or fails a visual inspection, then the discrepant condition must be remedied through current MM and/or SRM procedures. A skin contour inspection must be repeated, per Section 2.1.4, to ensure conformity to RVSM requirements.
 - 5. Follow troubleshooting instructions, as provided in Section 2.2, upon failure of any of the inspections/tests presented in Section 2.1.
- C) In addition to the items presented above, the following requirements must be fulfilled prior to securing operator approval:
 - 1. All personnel responsible for maintenance affecting the air data, autopilot, altitude alerting and altitude reporting systems must be familiar with the maintenance procedures specified in this document. Training should be provided as necessary.
 - 2. A revision to the Minimum Equipment List may be necessary, as described in Section 4.1.
 - 3. RVSM-specific operational conditions must be followed while operating a LJ35/36 airplane in RVSM airspace (Section 4). All flight crews must be familiar with the Operational conditions presented in the Airplane Flight Manual (AFM) supplement (document number AMI-01-LJ3536S, included in these Instructions), and all other contingencies necessary for safe operation of the LJ35/36 in RVSM airspace. Note that RVSM-specific airspace procedures (contingencies and other such protocols) may differ from region to region (i.e. Europe, NAT, Pacific).

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Section 4. Summary of Operational Requirements and Conditions

To ensure compliance with RVSM altimetry system accuracy and integrity requirements during RVSM operations, a LJ35/36 operator must incorporate Minimum Equipment List (MEL) changes, operational conditions and special flight crew training.

4.1 Minimum Equipment List (MEL) Revision

The Learjet Model 35/35A/36/36A MEL may be revised to require that the following equipment must be operational for dispatch into RVSM airspace.

Two (2) Air Data Display Units

One (1) automatic flight control system with altitude hold

One (1) altitude alerter

One (1) SSR altitude reporting transponder (already required for non-RVSM dispatch).

In lieu of a MEL change, the AFM supplement may serve as the vehicle for identifying the minimum equipment requirements for RVSM operation. This should be coordinated through the appropriate certifying authority when applying for Operational Approval.

4.2 Operational Conditions

Pre-Flight Inspection of the RVSM Critical Region

A pre-flight inspection of the RVSM Critical Region is required prior to operation in RVSM airspace.

ADDU1 or ADDU2 Failure

In case of ADDU1 or ADDU2 failure, a series of steps must be taken by the Pilot and/or CoPilot to continue operating in RVSM airspace. These procedures are summarized in the AFM supplement.

Analog Interface Unit (AIU) Failure

In case of AIU failure, a series of steps must be taken by the Pilot and/or CoPilot to continue operating in RVSM airspace. These procedures are summarized in the AFM supplement.

4.2.4 TCAS

If an ALJ35/36 airframe is equipped with TCAS II, it must be upgraded to TCAS II, Version 7.0 (or later version) to conduct operations in RVSM airspace.

4.3 Flight Crew Training

All flight crews must have knowledge and understanding of standard RVSM operating practices and procedures, as specified in FAA Memorandum 91-RVSM, "Approval of Aircraft and Operators for Flight in Airspace above Flight Level (FL) 290 where a 1,000 foot Vertical Separation Minimum is Applied", Change 1, Appendices 4 & 5, dated 6/30/99. In addition, all flight crews must have knowledge and understanding of the information contained in this document. The operations manual should be revised to include these RVSM-specific limitations and/or procedures, if necessary.

The Flight Crew should be familiar with the specific operational guidelines and contingency procedures that may be unique from one region of RVSM airspace to another (i.e. NAT, European, Pacific, WATRS, etc.).

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Section 4. **Summary of Operational Requirements and Conditions** 4.4 Airplane Flight Manual Supplement The Airplane Flight Manual supplement AMI-01-LJ3536S, included with this document, must be inserted as specified into the approved AFM. All flight crews must have knowledge and understanding of the material contained therein.

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