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	FEDERAL AVIATION	TRANSPORTATION ADMINISTRATION		SW-GADO-7	orm Approved Budget Bureau	No. 04_B	2060 1	
	MAJOR REPAIR	AND ALTER	ATION			A USE O		
	(Airframe, Powerplant,	Propeller, or	Appliance	APR 2 6 1984	FFICE IDENTI	FICATION		
INSTRUC	TIONS: Print or type all entries. tions and disposition of this form.	See FAR 43.9, FA	R 43 Appendix	B. and AC 43.0.1	SW - GAD	10 o 11		
	MAKE				(or subsequen	it revision	thereof	
1. AIRCRAFT	REPUBLIC	MODEL						
	SERIAL NO.			RC-3 NATIONALITY AND REGISTRATION MARK				
-	765			N6499K				
2. OWNER	NA ME (As shown on registration certificate)			ADDRESS (As shown on registration certificate)				
·	Edmond F. Freeman			Greg Terrace Apt.				
		entitied 3 horor n F	AND INVESTMENT AND INVESTMENT	Johnson City,	TN	· ·		
	airworthiness requ	irements and is	approved for	the above des	<del></del>			
	cribed aircraft, su authorized in FAR			by a person			•	
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TINU	4. UNIT IDENTIFICATION LUBERCH. 10438)						TYPE	
	MAKE	•	MODEL	SERIA	NL NO.		ALTER	
AIRFRAME	-					REPAIR	ATION	
	***************************************	(As described in	item 1 above) 🕶	*************	***	-		
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APPLIANCE .	MANUFACTURER			·				
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		6. CONFORMIT	V CTATEMENT					
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Eđmọ	nd F. Freeman		X U.S. CERTIFICATED MECHANIC		C. CERI	IFICATE N	<u>40.</u>	
342	Westridge Ave.		FOREIGN CERTIFICATED MECHANIC			1580607		
Abil	ene, Tx 79605		ICATED REPAIR STA	TION				
). I certify th	nat the repair and/or alteration ma s hereto have been made in accorda			itomi d al. 14			· · · · ·	
and that th	as the repair and/or alteration mass hereto have been made in accordance information furnished herein is t	nce with the rec	uirements of Pa	art 43 of the U.S. F	described on ederal Aviatio	the rever on Regula	se or	
TE			<i>n 11 -</i> 1	ZED NDIVIDUAL				
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		- $(M$	/_ //	Men	n			
ursuant to the	7. A	PPROVAL FOR RE	DRN TO SERVICE	// //				
e Administrat	es authority given persons specified better of the Federal Aviation Administ	elow, the unit i	dentified in item	4 was inspected in REJECTED	the manner	prescribed	by ,	
FAA FLT INSPECT	STANDARDS MANUFACTURER	X INSPECTION	AUTHORIZATION	OTHER (Specify)				
FAA DE	SIGNEE REPAIR STATION	CANADIAN E OF TRANSPO	PEPARTMENT AT INSPECTOR					
E OF APPRO	CERTIFICATE OR	OF AIRCRAFT		ZED/INDIVIDUAL	· · · · · · · · · · · · · · · · · · ·			
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#### 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.)

#### ENGINE AUXILLARY INSTRUMENT PANEL

- (1). Manufactured panel face from .050 alclad aluminum sheet.
- (2). Manufactured attach angles and brackets from .063 alclad sheet.
- (3). Attached angles, brackets and panel face to airframe, and engine overhead control quadrant.
- (4). Installed Davtron Model 811B clock in center of panel face, in accordance with mechanical installation instructions from Davtron see attachment #1. Attached clock battery to side of quadrant with a MS21919 clamp.
- (5). Installed Westberg P/N K29PX internally lighted cylinder head temperature indicator in the right outboard 2½" hole in panel face, in accordance with installation instruction sheet provided, see attachment #3.
- (6). Installed Westberg P/N K28PX internally lighted exhaust gas temperature indicator in the left outboard 2½" hole in panel face, in accordance with installation instruction sheet provided, see attachment #2.
- (7). Installed, CHT Sender on engine #6 cyl., EGT Probe Sender on #2 cyl., routed leads and patch cables through lt. accessory compt. and firewall, across top of aircraft above headliner and connected to indicators in accordance with wiring instructions provided.
- (8). Manufactured bracket from .050 al. sheet and attached speed switch to radio rack support behind main instrument panel, plumbed high pressure side of switch into pitot system tubing and checked for leaks, none noted. Low pressure side vented to ambiant. See attachment #4.
- (9). Wired components using Mil-5086 wire in accordance with diagrams, see attachment #4 & 5, using wire size as indicated in blocks.
- (10). Component installations made using standard A.N. or M.S. hardware, following standard aircraft maintenance practices. (A.C. 43.13-1A, Chapter 5, Section 1)

1 of 2

ADDITIONAL SHEETS ARE ATTACHED

★U.S. GOVERNMENT PRINTING OFFICE: 1977-771-021/290

FAA Form 337, Dated April 16, 1984

Cont...,

### ENGINE AUXILLARY INSTRUMENT PANEL

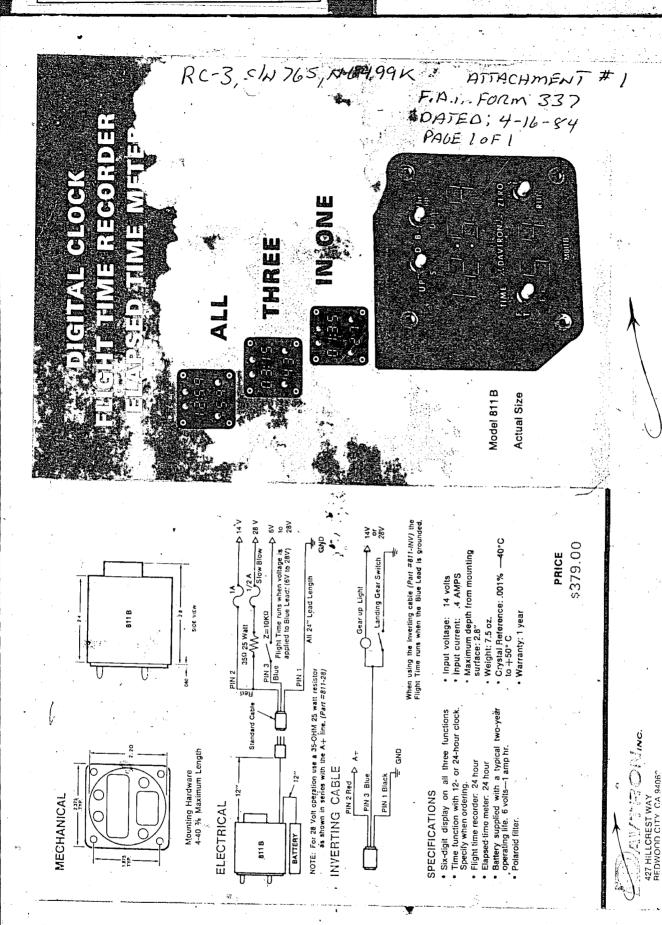
- (11). Wire size and circuit protection provided, in accordance with A.C. 43.13-1A, 443, 444, 429.
- (12). Performed static test of instrument panel in accordance with procedure and calculation described in attachment #6.
- (13). Reviewed A.C. 43.13-2A, Chapter 11, determined that installation meets applicable paragraphs as indicated below:

212, 213 (a) (e) (b), 214 (b)

- (14). Equipment list revised.
- (15). Aircraft reweighed.

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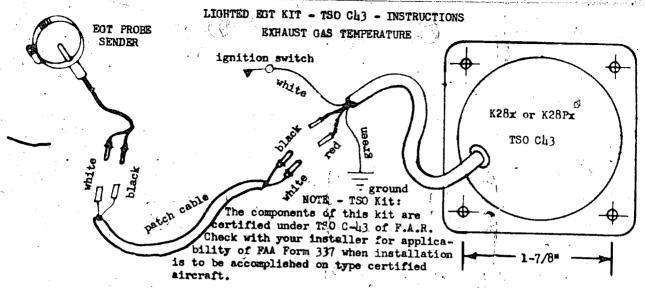
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Mount the hose clamp over 3/16" hole drilled in exhaust pipe about 6" from manifold. Be this on the leanest cylinder as defined by engine manufacturer. Leanest cylinder will vary with engine and carburetor setups.

Mount the instrument in 2-1/16" hole for front panel mount (24" hole for behind panel mount) in convenient operating place. Use diagram for mounting template.

Connect patch cable to instrument as shown. Black lead to black lead and red lead to white lead. Connect the patch cable to sender as shown. Black lead to black lead and white lead to white lead. Patch cable can be omitted or lengthened in feet without effecting accuracy of instrument. To lengthen use 18 gage wire (WESTACH INSTRUMENT only). NOTE: If no reading, reverse sender leads.

Internal light operation: The green and white wires are for internal light operation. For off-on control, wire green lead to ground and white lead to ignition switch (light dimmer). For continuous operation, wire green lead to ground and white lead to +12 volt battery. NOTE: If used on 24 volt, order 24 volt adapter Cat. #329-24.

Route wires away from hot manifold and pipes. Tie to other wire bundles, if available, and support wires every 12-15" intervals. Use grommets when going through metal.

WESTACH INSTRUMENTS are made with the highest quality material and workmanship. With reasonable care, instruments should give long and satisfactory service.

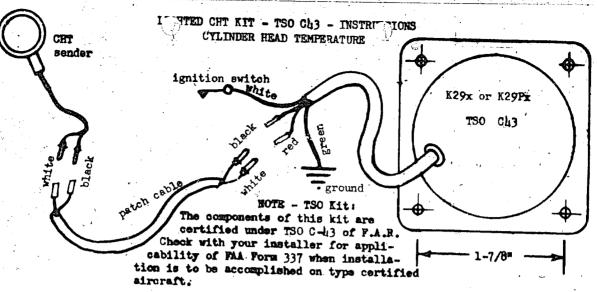
WESTACH INSTRUMENTS are guaranteed against defective material and workmanship for 1 year of service or 18 months from manufacturing date. Our obligation is limited to correct and return instruments prepaid and sovers no liability for dimage from shipment, improper installation, rough handling or if opened. UNDER NO CIRCUMSTANCES WILL WESTRERG MFG. INC. REIMBURSE CUSTOMER FOR COST(S) INCURRED IN REMOVING AND/OR REINSTALLING REPLACEMENT PARTS.

WESTBERG MFG. INC., 3400 WESTACH WAY, SONOMA, CA 95476-9710 - PHONE #(707) 938-2121

FORM 177-80X 10/81

RC-3, S/H 765, N6499K

ATTACHMENT #2 FAA FORM 335 DATEO: 4-16-84 PAGE 1 OF



Mount the ring sender under spark plug. The gasket is usually removed. Do this on the leanest cylinder as defined by engine manufacturer. The leanest cylinder will vary with engine and carburetor setups.

Mount the instrument in 2-1/16" hole for front panel mount (24" hole for behind panel mount) in convenient operating place. Use diagram for mounting template.

Connect patch cable to instrument as shown. Black lead to black lead and red lead to white lead. Connect the patch cable to the sender as shown. Black lead to black lead and white lead to white lead. Patch cable can be omitted or lengthened 4 feet without effecting accuracy of instrument. To lengthen use 18 gage wire (WESTACH INSTRUMENT only). NOTE: If no reading, reverse sender leads.

Internal light operation: The green and white wires are for internal light operation. For off-on control, connect green lead to ground and white lead to ignition switch (light dimmer). For continuous operation, connect green lead to ground and white lead to +12 wolt battery. NOTE: If used on 24 volt, order 24 volt adapter Cat. #329-24.

Route wires away from hot manifold and pipes. Tie to other wire bundles, if available, and support wires every 12-15" intervals. Use grommets when going through metal.

WESTACH INSTRUMENTS are made with the highest quality material and workmanship. With reasonable care, instruments should give long and satisfactory service.

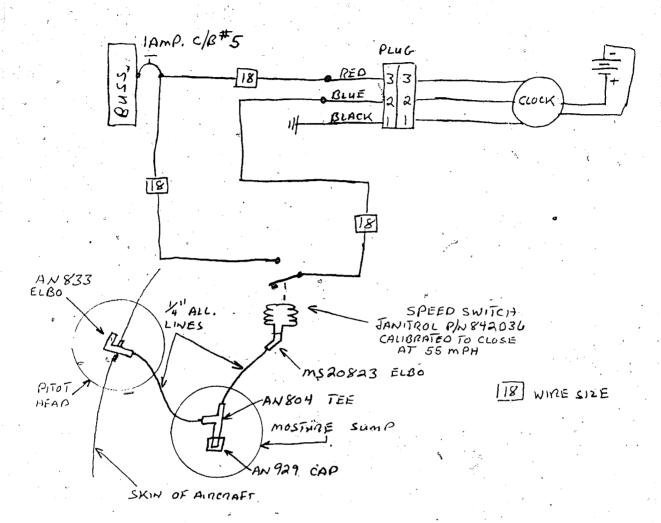
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FORM 177-80A1 9/81 RC-3, S/4765, N6499K

ATTACHMENT#3
FAA FORM 337
DATED: 4-16-84
PAGE 10F1

# CLOCK WIREING DIAGRAM



ATTACHMENT #4

RC-3, SIN 765, N6499K

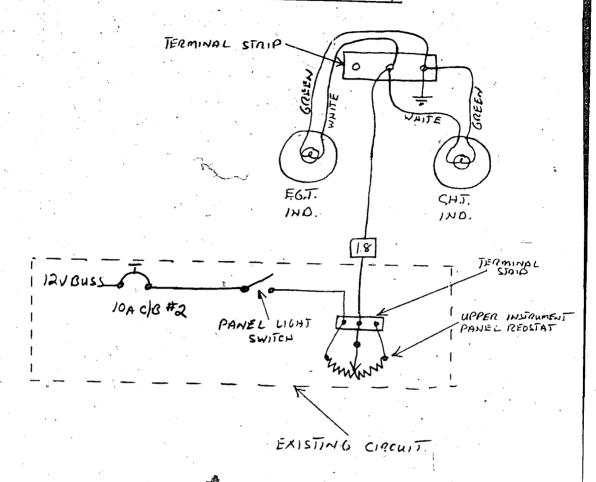
FAA FORM 337

DATED: 4-16-84

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## WESTBERG CHT, AND E.G.T. IND. LIGHTING WIRENG DIAGRAM



ATTACHMENT #5

RC-3, S/N 765, N6499K

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PAGE 1 OF;

## STATIC TEST CALCULATION + PROCEDURE

* (2.) TACHOMETER INDICATOR, A.I.M. P/N 3.0-100 1.0 LBS	
COMBINATION INDICATOR, A.I.M. P/N 21-1000 1.0 LBS  * (2.) TACHOMETER INDICATOR, A.I.M. P/N 3.0-100 1.0 LBS	NEIGHT
	1.0 LBS.
(3.) CLOCK, DANTRON P/N 811B	1.0 LBS.
	,5 LBS,
(4.) E.G.T. INDICATOR, WESTBERG P/N KARPX . 25 LBS	.25 LBS.
(5.) C.H.T. INDICATOR, WESTBERG PH KAMPX .25 LBS	,25 LBS.
(6) PANEL AND ATTACHMENTS ,25 LBS	,25 LBS.
* ITEM TO BE ADDED AT A LATTER DATE  TOTAL  WEIGHT  3.25 LBS	*

# TEST LOAD CHICULATION (AC43.13-2A CHAPTER I, PAGE )

LOAD	FACTOR	2	STATIC TEST	LOADS (LOS)
SIDEWARD	1,50		4.87	
UPWARD	3.0 G		9, 75	•
POWNWARD	6.66		21.45	
FORWARD	2.00		6,50	• \$

RC-3, S/N 765, N6499K

ATTACHMENT #6
FAR FORM 337

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## STATIC \* TEST PROCEDURE

(FOR SIDEWARD, DOWNWARD + FORWARD TEST)

- (1.) ATTACHED , OHI STAINLESS WIRE TO EACH PANEL ATTACHPOINT (4 EA) APPROX. 3'LONG.
- (2) JOINED EACH WIRE TO GETHER AT A COMMON POINT IN FROUNT OF, ALONG THE SIDE, OR FORWARD OF THE PANEL INSTALLATION, SO THAT A EGUAL PULL COULD BE PLACED ON EACH WIRE.
- (3) ATTACHED A CHATILLON MODEL DPP-SO CALIDRATED SPRING SCALE AND APPLIED THE TEST LOAD AS CALCULATED.

(UPWARD)

THE DOWNWARD TEST, IT COULD REASONABLY BE EXPECTED TO PASS THE UPWARD TEST, DUE TO THE MAIN STRUCTURE, IS ITSELF LOCATED ABOVE THE PANIL.

RC-3, SIN 765, N6499K

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