of Transportation Federal Aviation **Administration**

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification FAIFSDO

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 of 1958). Model Republic 1. Aircraft Serial No. Nationality and Registration Mark Name (As shown on registration certificate) Address (As shown on registration certificate) Cy Heatherington Manley Hot Springs, AK 99756 2. Owner

3. For FAA Use Only The data identified herein complies with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR A3 section 43.7.

<u> </u>	T	4. Unit identification		5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME		(As described in Item 1 above)	······································		х
POWERPLANT					
PROPELLER					
APPLIANCE	Type	·			

6. Conformity Statement A. Agency's Name and Address B. Kind of Agency C. Certificate No. X U.S. Certificated Mechanic John R. Greeff Foreign Certificated Mechanic P.O. Box 862 A&P #1449887 Certificated Repair Station Yelm, WA 98597 Manufacturer

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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. Date Signature of Authorized Individual

12-19- 95

7. Approval for Return To Service Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is

6			THE TEST OF THE TE	
BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization Other (Specify)	
5	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10-28-96		Certificate or Designation No.	Signature of Authorized Individual Pose of R. Hoshein	

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.)

Modified aircraft rudder trim by removing original rudder trim and installing a hinged tab assembly made of 2024T-3 .060" aluminum. Rudder was unriveted and old tab removed and new tab and hinge assembly bolted in place using AN526-832-6 screws and AN365-832 nuts.

A Menzimer Aircraft Components; Inc. servo unit, P/N MACS 4 Servo, Rocker Switch and position Indicator were installed. The servo unit was bolted inside the rudder assembly by use of four (4) AN526-832-8 screws and four (4) AN365-832 nuts (see attached photos). A MACS 4 Servo Pushrod Kit was used to connect the servo to tab pylon. The operational range of the tab is 20° right and 35° left of neutral, which provides adequate yaw imbalance while not exceeding a reasonable corrective central pressure in the event of a full deflection runaway trim condition.

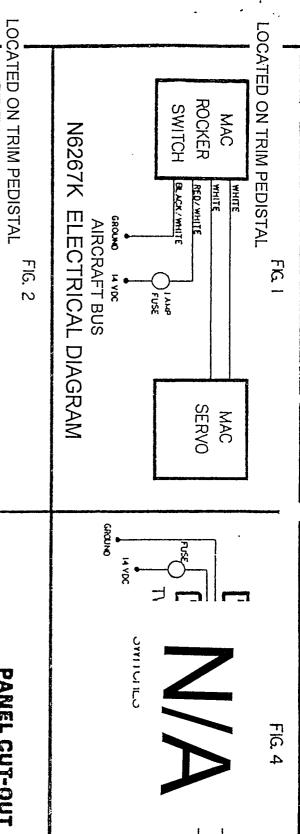
All work was performed per installation instructions and AC43.13-1A/1B, Change 3, revised 1988, Chapter 2, Section 1, Paragraphs 55(a), (b), (c) and (e); Chapter 5, Section 1, Paragraphs 228, 230, 232 and 233; Chapter 6, Paragraph 249; Chapter 11, Section 1, Paragraph 410, Section 2, Paragraphs 424, 426 and 428–430, Section 3, Paragraphs 442–445 and 448–451, Section 4, and Section 7, Paragraphs 514–519; Chapter 13, Paragraphs 659 and 662.

Weight and Balance was amended to reflect the above changes.

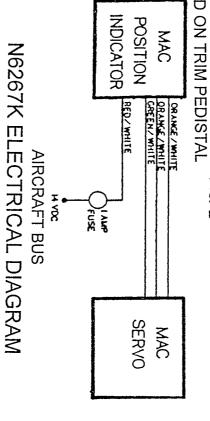
-- Nothing Follows --

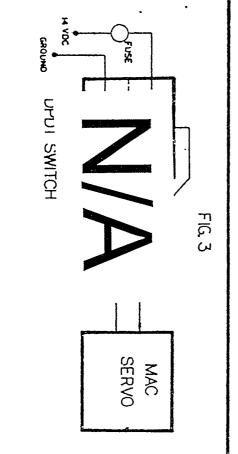
RUDDER TRIM INSTALLATION N6267K

Installation of the Rudder Trim complies with CAA Part 03-0 dated 1-19-1945 Republic E17-4 dated 3-6-1946 titled Vertical Stress Analysis also Static Test #ERT516 Revision "A" dated 4-29-1946 which shows a 300% saftey factor. Aerodynamic balance has not changed by the installation of Rudder Trim modification. Mass balance was not done nor needed by Republic. Hence N/A in this installation.Original tab was fixed, but bendable 90° either side of neutral with no limitations in the flight manual or maintenance manual.

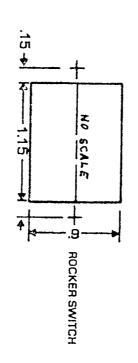


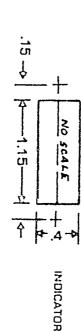










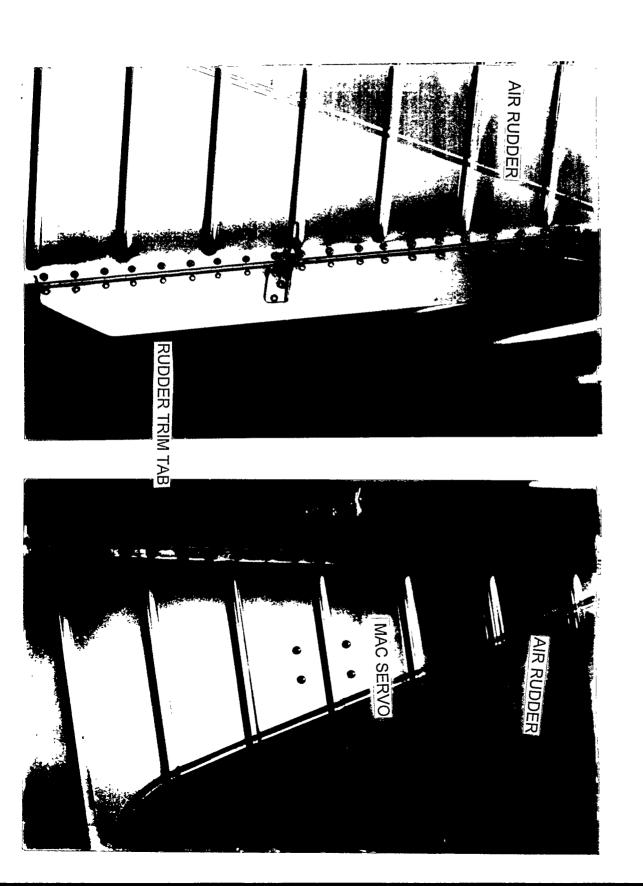




Menzimer Aircraft Components, Inc.

1966 Vineyard Ave. Vista CA 92083 (619) 598-0592

•••



DEAR VALUED CUSTOMER.

THANK YOU FOR PURCHASING A MAC SERVO. WE HAVE MADE THE UTMOST EFFORT TO DESIGN AND MANUFACTURE THE MOST RELIABLE PRODUCT POSSIBLE. ALL MAC PRODUCTS ARE WARRANTEED FOR 1 YEAR FROM DATE OF PURCHASE. IF YOU SHOULD HAVE PROBLEMS WITHIN THAT PERIOD. RETURN THE ITEM TO MAC INC. WE WILL REPAIR OR REPLACE IT AT NO COST TO YOU IF MAC INC. DETERMINES THAT FAILURE OCCURRED THROUGH NORMAL USE. AND NOT DUE TO ABUSIVE TREATMENT OR FAULTY ELECTRICAL WIRING.

INFORMATION AND SUGGESTIONS:

- SERVO CAN BE TESTED BY MERELY TOUCHING ITS TWO WHITE LEADS ACROSS YOUR CAR BATTERY. REVERSE POLARITY TO REVERSE DIRECTION OF TRAVEL.
- INDICATORS CAN BE TESTED ON YOUR CAR BATTERY BY ATTACHING THE RED STRIPED WIRE TO 12V+ AND THEN GROUND ANY OF THE OTHER WIRES ONE AT A TIME.
- A MINIATURE 9 VOLT TRANSISTOR BATTERY CAN BE USED TO TEST THE SERVO. THESE SMALL BATTERIES ARE VERY USEFUL FOR ACTIVATING THE SERVO WHILE IT IS BEING INSTALLED AND ADJUSTED. OF COURSE. THE SERVO WILL OPERATE SLOWER AND HAVE LESS POWER THAN IT WOULD WITH 12 VOLTS. BUT IT IS ADEQUATE FOR THIS PURPOSE. SOME ULTRALIGHT AIRCRAFT USE THIS BATTERY FOR THEIR ONLY POWER SOURCE TO OPERATE THE TRIM SYSTEM!
- THE PUSHBUTTON SWITCHES (WIRED ACCORDING TO FIGURE 4) WILL ELECTRICALLY SHORT THE SERVO MOTOR TO GROUND WHEN EITHER BUTTON IS RELEASED. THIS IS GOOD BECAUSE IT STOPS THE MOTOR ALMOST INSTANTLY WITHOUT COASTING. IF THE SERVO IS USED AS A TRIM DEVICE IT WILL GIVE MORE PRECISE STOPPING. THE MAC ROCKER SWITCH WILL DO THE SAME SINCE IT IS COMPRISED OF TWO SEPARATE PUSHBUTTON SWITCHES WITHIN ITS HOUSING.
- MAC SERVOS ARE CONSTRUCTED OF A MATERIAL CALLED MINLON 22C MADE BY DUPONT. THIS IS A NYLON BASE WITH MINERALS AND FIBERGLASS ADDED FOR STRENGTH AND DURABILITY. SOME OF THESE FIBERGLASS PARTICALS MAY APPEAR AS WHITE SMUDGES ON THE OUTSIDE SURFACE OF THE SERVO--NOT VERY PRETTY BUT IT DOES MAKE IT VERY STRONG.
- DO NOT ENLARGE THE EXISTING 1/8" PIN HOLE IN THE SERVO OUTPUT SHAFT AS THIS COULD WEAKEN THE SERVO TO PUSHROD CONNECTION UNDER CERTAIN CONDITIONS. IF YOU ARE USING A FITTING THAT REQUIRES A 3/16" CLEVIS PIN I SUGGEST THAT YOU BUSH ITS HOLE SIZE DOWN SO A 1/8" PIN CAN STILL BE USED THROUGH THE SERVO.
- MAC SERVOS SHOULD LAST THE LIFETIME OF YOUR AIRCRAFT. IN ADDITION TO 15 YEARS OF USE BY THE PROTOTYPE MODEL. PRODUCTION SAMPLES HAVE BEEN BENCH TESTED TO 40,000 COMPLETE CYCLES UNDER LOADED CONDITIONS. THIS RELATES TO 244 HOURS (10 DAYS) OF CONTINOUS USE.

MAC 3 POSITION INDICATOR

THEORY OF OPERATION

THE MAC SERVO POSITION INDICATOR IS DESIGNED TO BE INSTALLED IN THE COCKPIT TO GIVE AN INDICATION OF THE SERVO OUTPUT SHAFT POSITION. WHEN THE SERVO REACHES ITS LIMIT OF TRAVEL IN EITHER DIRECTION AN END LIGHT WILL GO ON. THE CENTER LIGHT WILL GO ON WHEN THE SERVO RUNS THROUGH ITS NEAR CENTER POSITION. THE INDICATOR IS CONNECTED TO THE SERVO BY THREE SMALL 26 OR 28 GAUGE WIRES.

INSTALLATION INSTRUCTIONS

MAC INDICATORS WERE DESIGNED TO BE USED IN BRIGHT AREAS.
THEY HAVE EXCEPTIONALLY BRIGHT LED'S WHICH ARE INSET
SLIGHTLY TO PREVENT DIRECT SUNLIGHT PENETRATION. MOUNT
YOURS ANYWHERE IN THE COCKPITS THAT IS CONVENIENT. BUT KEEP
IN MIND THAT DIRECT SUNLIGHT ON ITS FACE WILL HAVE A
TENDENCY TO BLEACH OUT ITS EFFECTIVENESS. FOR BEST RESULTS
I SUGGEST MOUNTING IT IN AN AREA WHICH WILL BE AT LEAST
SLIGHTLY SHADED DURING NORMAL DAYLIGHT OPERATIONS.

WIRE ACCORDING TO FIGURE 24. SIMPLY ATTACH THE COLOR CODED LEADS ON THE SERVO TO THE SAME COLORED LEADS ON THE INDICATOR. THE INDICATOR IS ALSO CONNECTED TO 14V+. A 1 AMP FUSE, OR CIRCUIT BREAKER, SHOULD BE USED ON THE POWER LEAD. IF, AFTER INITIAL TEST, YOU FIND THAT THE END POSITION LIGHTS ARE OPERATING IN REVERSE OF WHAT YOU DESIRE, IT WILL BE NECESSARY TO REVERSE THE TWO ORANGE/WHITE COLORED LEADS.

MAC ROCKER SWITCH INSTALLATION INSTRUCTIONS

MOUNT THE MAC ROCKER SWITCH USING THE ENCLOSED 2-56 SCREWS. WIRE ACCORDING TO FIGURE 1. THE TWO WHITE WIRES ON THE SWITCH ARE CONNECTED TO THE TWO WHITE WIRES ON THE SERVO. THE RED/WHITE WIRE IS CONNECTED TO 14V+ THROUGH A FUSE OR CIRCUIT BREAKER. THE BLACK/WHITE WIRE IS CONNECTED TO GROUND.

MAC SERVOS

THEORY OF OPERATION

THE MAC SERVOS ARE DESIGNED TO OPERATE ON 12-14 VDC. A LESSER VOLTAGE CAN BE USED BUT WILL RESULT IN LESS POWER AND SLOWER SPEED. CONNECTING THIS VOLTAGE TO ONE OF ITS POWER LEADS (WHITE) AND GROUND TO THE OTHER (WHITE) LEAD WILL OPERATE IT. IT WILL CONTINUE TO RUN UNTIL THIS POWER IS TURNED OFF, OR UNTIL IT AUTOMATICALLY SHUTS OFF AT THE END OF ITS TRAVEL. SINCE THE THRUST IS GENERATED BY MEANS OF A JACKSHAFT THE OUTPUT SHAFT WILL LOCK IN ANY POSITION WHEN THE POWER IS TURNED OFF. VOLTAGE POLARITY ON THE POWER LEADS DETERMINES THE DIRECTION OF TRAVEL.

INSTALLATION INSTRUCTIONS

SINCE MAC SERVOS ARE USED TO REMOTELY CONTROL MANY DIFFERENT DEVICES, SPECIFIC INSTALLATION INSTRUCTIONS CANNOT BE SUPPLIED. IN GENERAL THEY ARE INTENDED TO BE MOUNTED ON A FLAT SURFACE BY FOUR SCREWS THROUGH THEIR MOUNTING FLANGE. ENCLOSED NUT COUPLING OR CLEVIS CAN BE USED TO MAKE THE SERVO PUSHROD CONNECTION.

A MAC TRIM SYSTEM COMES WITH SERVO, ROCKER SWITCH, 3 POSITION INDICATOR, AND CLEVIS/PUSHROD KIT. INSTALL ALL COMPONENTS AND WIRE ACCORDING TO FIGURES AND 2. YOU CAN USE VERY SMALL 26-28 AWG WIRE TO MAKE ALL WIRING CONNECTIONS. TWO WIRES WILL CONNECT THE ROCKER SWITCH TO THE SERVO, AND THREE WIRES WILL CONNECT THE SERVO TO THE 3 POSITION INDICATOR.

IF YOU HAVE PURCHASED A MAC SERVO INDIVIDUALLY, YOU MAY USE ANY SWITCHING DEVICE THAT SUITS YOUR SPECIFIC NEEDS. REMEMBER THAT THIS SWITCH WILL HAVE TO REVERSE THE VOLTAGE POLARITY TO THE SERVO ALONG WITH SWITCHING IT ON AND OFF. FOLLOW WIRING DIAGRAM FIGURE 3 OR FIGURE 4 DEPENDING ON THE TYPE OF SWITCH USED. IF YOU WANT THE SERVO TO TRAVEL TO ITS EXTREME END POSITIONS WITHOUT STOPPING, A SIMPLE DPDT SWITCH WILL DO. IF YOU WANT A TRIMMABLE SERVO THAT WILL STOP IN ANY POSITION, YOU WILL NEED A DPDT SWITCH WITH A CENTER OFF POSITION, OR TWO SPDT PUSHBUTTON SWITCHES.

WIRING CONNECTORS ARE NOT INCLUDED IN THE MAC SERVO SYSTEMS. YOU MAY USE ANY TYPE DESIRED, OR SIMPLY SOLDER ALL CONNECTIONS AND INSULATE WITH A HEAT-SHRINKABLE SLEEVING. FUSES OR CIRCUIT BREAKERS ARE ALSO NOT INCLUDED, BUT THEY ARE RECOMMENDED FOR ALL INSTALLATIONS.

CAUTION

MAC INC. DOES NOT RECOMMEND THE SERVOS BE INSTALLED IN AN AIRCRAFT TO OPERATE ANY APPARATUS OR CONTROL SURFACE THAT, IF FAILURE SHOULD OCCUR, WOULD BECOME MECHANICALLY DAMAGING, DANGEROUS, OR LIFE-THREATENING. WHEN A SERVO IS INSTALLED IN AN AIRCRAFT, ALL WEIGHT AND BALANCE INCLUDING THAT OF THE CONTROL SURFACES WILL BE AFFECTED. SERVOS SHOULD NOT BE INSTALLED UNLESS FULL KNOWLEDGE OF THE EFFECTS OF THIS CHANGE IN WEIGHT AND BALANCE ARE UNDERSTOOD.

REVISED EQUIPMENT LIST REPUBLIC SEA BEE

DATE:	12-19-95	SERIAL NO.:	477
MODEL:	RC-3	"N" NO.:	N6267K

ITEMS OF EQUIPMENT INSTALLED:

EMERGENCY LOCATOR TRANSMITTER M/N EBC-102A 5-LB. DANFORTH ANCHOR/10-FT. 5/16" CHAIN/50-FT. 1/2" NYLON LINE 2½-LB. HALON 1211 FIRE EXTINGUISHER COMPASS FOUR (4) EASTERN AERO MARINE LIFE VESTS SOUTHWIND HEATER KING KR86 ADF 604 II MORROW LORAN NARCO COM 120 AT150 NARCO TRANSPONDER NARCO 122 NAV ENCODING ALTIMETER SIGTRONICS INTERCOM AIRSPEED INDICATOR ARTIFICIAL HORIZON ALTIMETER MANIFOLD PRESSURE/FUEL FLOW METER ELECTRIC TURN AND BANK DIRECTIONAL GYRO VERTICAL SPEED INDICATOR TACHOMETER FUEL QUANTITY GAUGE EXHAUST GAS TEMP/CYLINDER HEAD TEMP GAUGE

OIL TEMPERATURE GAUGE

OIL PRESSURE GAUGE

VOLT/AMP METER GAUGE

FUEL PRESSURE GAUGE

PROPELLER PRESSURE GAUGE

FOUR (4) BILGE PUMPS

TAIL STROBE LIGHT

WING LANDING LIGHT

HARTZELL 3-BLADE PROPELLER

ALTERNATOR

OIL FILTER

2 CESSNA "172" SEATS

2 MAC SERVOS & INCICATORS

REVISED WEIGHT & BALANCE REPUBLIC SEA BEE

12-19-95 DATE:

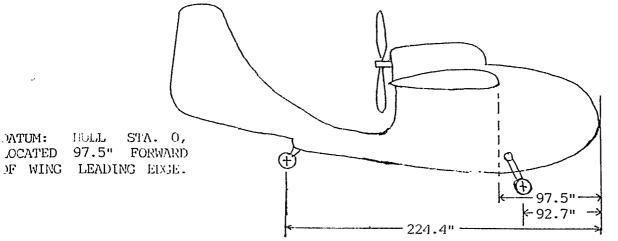
SERIAL NO.: 477

DEL:

RC3

"N" NO.:

6267K



LEVELING MEANS: LUCS ON FRONT VND REAR OF LEFT AND RIGHT DOOR FRAMES.

ATRORAGE WEIGHT

POSITION	SCALE READING	TARE	NET WEIGHT
LEFT WHEEL	1185	15.0	. 1170
RIGHT WHEEL	1188	12.0	1176
TAIL WHEEL	609	5.0	604
TOTAL	2982	32.0	2950

"OTE: AIRCRAFT WEIGHT WITH FUEL @ 75 GALLONS : 450 LBS. AND OH, CAPACITY @ 12 √TS. @ <u>22.5</u> LBS.

CORRECTED WEIGHT & BALANCE

TTEM	AEIGHT	ARM	MOMENT	
AJRCRAFT EMPTY WI.	2522.5	120.5	303961.0	
UNUSABLE FUEL	0	00	0	
UNUSABLE OIL	0	0	0	
	I ICENSED FMPTY WT.	EMPTY C.G.	TOTAL MOMENT	
TOTAL	2522.5 LBS.	120.5 INCHES	303961 INCH LBS.	

HEIGHT & BALANCE INFORMATION

GROSS WEIGHT:

3150 LBS. - NORMAL CATEGORY

2810 LBS. - UPILITY CATEGORY

REAR SEATS LOCATION @ + 96.0

FRONT SEATS LOCATION @ + 62.0

C.G. RANGE:

+111.5 to +118.3 HILIM MAXIMUM BAGGAGE 200LB @ +118.0

LANDING GEAR DOWN.

GEAR

FUEL CAPACITY 75 GAL @ +116.0

RETRACTION MOMENT ±2900 INCH

OIL CAPACITY 3 GAL @ +136.0

LBS.

N6267K FLIGHT MANUAL SUPPLEMENT

RUDDER TRIM OPERATION

1. To operate the rudder trim, simply depress the spring loaded rocker switch in the direction rudder trim is needed.

For example, during take-off and climb right rudder trim will be required to compensate for "P" factor. Depress the rocker switch to the right until rudder pedal pressure is no longer required and the ball is centered on the turn and bank indicator.

IRREGULAR OPERATION

1. In case of a trim runaway, simply depress the rudder pedal in the opposite direction of the runaway.

US Department of Transportation

Federal Aviation Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved							
OMB No. 212	0-0020						

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9 FAR 43 Appendix B. and AC 43.9-1/6

ar fo	nd disposi or each suc	tion of this form	This report is required to the control of the contr	i bv la	w (49 U.S.C. 1421) Fa	ilure to re	port can result in	nt revision i a civil pena	inereof) for it lity not to exc	nstructions ceed \$1,000
		Make			•	Model		·		
١, ,	iroroft	Cessna	L			19	5			
1. Aircraft		Serial No.				Nationality and Registration Mark			·	
		7275					707v			
		Name (As sh	own on registration cer	tificat	te)		(As shown on reg	istration c	ertificate)	
2. 0)wner	John R	. Greeff				t Springs A			
			•				nley Hot Sp			56
		<u> </u>			3. For FAA Use On	ilv				
				AVE DE	DENTIFIED HEREIN COM SCRIBED AIRCRAFT SU A PERSON AUTHOBIL FAA INSPECTOR, NIN	IPLIES WIT D IS APPR BJECT TO JED IN FAI	OVED			
					4. Unit Identification	n		·	5. Type	
_	Unit		Make		Model		Serial No).	Repair	Alteration
AIRF	RAME	~~	···················(A	ls des	cribed in Item 1 above	e) ~~~~	··········			х
POW	ERPLANT	A	PPRO)\	/ED S	SÍÍ	MILA	IR	ŧ	
PROP	PELLER		- INS	T	ALLA	TI	ON^{-}		1,3 1,01 (1996
APPLI	IANCE	Type Manufacturer			1		5		ਹ,	
					6. Conformity Statem	ent		<u>-</u>		
<u> 4. Aç</u>	gency's Na	ame and Addre	ss		B. Kind of Agency			C. Certifi	cate No.	
	John R	• Greeff		_	X U.S. Certificated	Mechanic				
	P.O. B				Foreign Certificat	Certificated Mechanic ASD #1440997				
		WA 98597			Certificated Repa	Pepair Station A&P #1449887				
					Manufacturer					
•		made in accus	d/or alteration made to dance with the required and correct to the best of	nems	OF PART 43 OF THE U.S.	4 above a Federal A	nd described on th Aviation Regulatio	ne reverse one and that	or attachmen at the informa	ts hereto ation
ate					Signature of Author	ized Indiv	idual			
	4-1-94 Jak Lel									
				7. Ap	proval for Return To S	Service				
Purs	suant to ti	he authority gi	ven persons specified Aviation Administration	belov	v, the unit identified	in item 4	was inspected in	the mann	er prescribe	d by the
	1	It. Standards	Manufacturer	anu	is	U RE	JECTED Other (Specify)			
Y		Designee	Repair Station		Person Approved by T Canada Airworthiness	ransport	1			
ate o	f Approva	I or Rejection	Certificate or		Signature of Authoriz		dual			
g-	-5-9	5	Designation No.	7			Hospin	•		
445					<u> </u>					

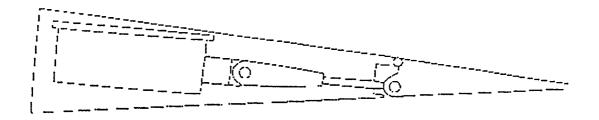
Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)						
(ii more space is required, attach additiona	ai sneets, identity with aircraft hatforlanty and registration mark a	na date work completed.)				
	GENERAL DAY OF THE REPORT OF THE PROPERTY OF T	•				
	CF CHARLEST TO SOME PROPERTY CONTROL OF CONT					
	# - 46 CTC MISCH					
		•				
	·	•				
	•					
	•					
	·					
		•				
	•	'				
		•				
-						
-		·				
	,					
		•				
	•					
		·				
	☐ Additional Sheets Are Attached					

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.)

An electric AILERON TRIM system was installed, utilizing Menzimer Aircraft Components, Inc, MAC S4 Servo, Rocker Switch, Three Position Indicator, and Clevis/Pushrod Kit. Installation of the MAC components were in accordance with MAC installation Instructions. The servo was mounted in the right aileron as depicted below. The Rocker Switch and the Three Position Indicator were mounted on the Control Column Cover below the rudder trim and powered from the Primary Bus through a 1 amp circuit breaker.



The TRIM TAB was removed and replaced with a locally manufactured unit, of the same material (.016" 2024T3) dimension and profile, that includes a rib and spar. It was attached in place with MS 20001 Hinge. The operational range of the tab is 40 degrees (20 degrees either side of neutral) which provides adequate lateral imbalance adjustment while not exceeding a reasonable corrective control pressure in the event of a full deflection runaway trim condition.

With all units in place, the aileron was balanced in accordance with Maintenance Instructions, TM 1-1C-126LA-2 Cessna LC-126A,B,C.

----- CONTINUED -----

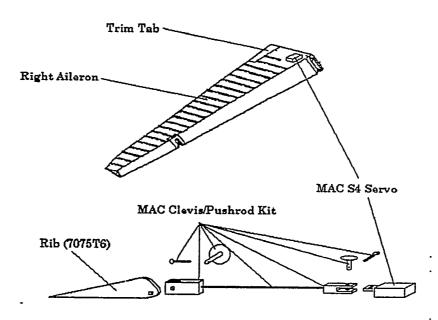
ADDITIONAL SHEETS ARE ATTACHED

(

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.)

Drawing - Trim Tab 1



Selected Installation Configuration - Cessna 190 SN 7693



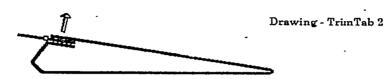
Use a MAC S4 SERVO for installations having a short (1/2" to 1 1/4") control horn.

---- CONTINUED ----

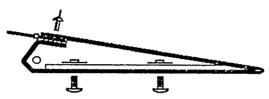
MADDITIONAL SHEETS ARE ATTACHED

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.

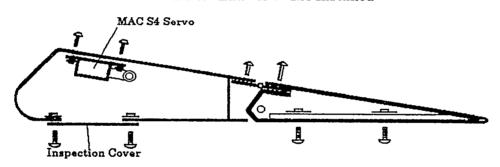
8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)



Trim Tab-End View



Trim Tab - End View - Rib Installed



End View - Aileron - Trim Tab Installed

LEGEND

1 7

MS20365-632 Screws

MS21044-632 Nut Plates

TA 台

MS20470AD4 Rivets or CR163 Cherry Rivets

Trim Tab formed from 2024T3

6____

Rib/Control Horn (7075T6)

MS20001P3 Hinge

---- NOTHING FOLLOWS -----

MADDITIONAL SHEETS ARE ATTACHED

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.)

Aircraft weighed and Weight and Balance computed after alteration.

Equipment List revised to reflect alteration.

Pilot Handbook appended to include alteration.

All work performed in accordance with ADVISORY CIRCULAR 43.13-1A-2A, Change 3, Revised 1988; Chapter 2 Section 1 Paragraph 55a,b,c,e; Chapter 5 Paragraphs 228, 230, 232, 233; Chapter 6 Paragraph 249; Chapter 11 Section 1 Paragraph 410; Section 2 Paragraphs 424, 426, 428, 429, 430 Section 3 Paragraphs 442, 443, 444, 445, 448, 449, 450, 451, Section 4; Section 5 Paragraphs 514, 515, 516, 517, 518, 518-1, 519; Section 7; Chapter 13 Paragraphs 659, 662.

References:

Cessna LC-126A,B,C TM1-1C-126LA-2 MAINTENANCE INSTRUCTIONS, CESSNA SERVICE MANUAL AN 01-125 CA-3