

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

Form Approved
Budget Bureau No. 04-R060.1

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

FOR FAA USE ONLY
OFFICE IDENTIFICATION
SO-FSDO-62

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.

1. AIRCRAFT	MAKE	Republic	MODEL	RC-3
	SERIAL NO.	765	NATIONALITY AND REGISTRATION MARK	NG499K
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)	
	Edmond F. Freeman		Route 12, Craig Terrace Apartments #11, Jonesboro, TN 37659	

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE NO.
Edmond F. Freeman #1 Boone Lakeshore Apt. Route #12, Jonesboro, TN 37659	<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER	AP 1580607

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
11-6-77	<i>Edmond F. Freeman</i>

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 APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL		
11-6-77	AI1580607	<i>Edmond F. Freeman</i>		

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.

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

1. Fabricated new upper instrument panel from .125 2024-T3 aluminum. Instruments, lights and switches installed and located as per. attached drawing. Panel mounted to original frame with -832 screws.
2. Fabricated new switch and circuit breaker panel from .125 2024-T3 aluminum. Switches and circuit breakers located as per. attached drawing. Panel mounted to original frame with -832 screws.
3. Narco ADF-31, and genave alpha 200A, removed from under instrument panel and installed in the original radio equipment shelf in main instrument panel. Radios installed in accordance with the manufactures installation manuals.
4. Aircraft instrument panel, circuit breakers and switches rewired in accordance with republic maintenance manual. Auto reset circuit breakers replaced with the manual reset type of the same value.
5. Work accomplished in accordance with AC43.13-1 and 2 applicable F.A.R.'s and republic maintenance manuals. Weight and balance, equipment list revised.

ADDITIONAL SHEETS ARE ATTACHED

INSTRUMENT PANEL STATIC LOAD TEST

ITEM INSTALLED IN PANEL AS SHOWN ON PANEL DIAGRAM

WEIGHT LBS.

VACUUM GAUGE	.50
AIR SPEED INDICATOR	1.00
ARTIFICIAL HORIZON	2.50
ALTIMETER	1.00
MANIFOLD PRESSURE INDICATOR	1.00
TACHOMETER	.75
FUEL QUANTITY INDICATOR	.25
TURN AND BANK INDICATOR	1.75
DIRECTIONAL GYRO	2.50
VERTICAL SPEED INDICATOR	1.00
VOLTMETER	.25
AMP METER	.25
FUEL PRESSURE INDICATOR	.50
RADIO SHELF LOAD	10.00
TOTAL LOAD IN BLANK HOLES	6.00
MISC. C/B, SWITCHES, CONTROLS, LIGHTS	3.00
PANEL + HARDWARE	3.00
TOTAL WT.	<u>35.25</u>

CRITICAL STATIC TEST LOAD FACTORS

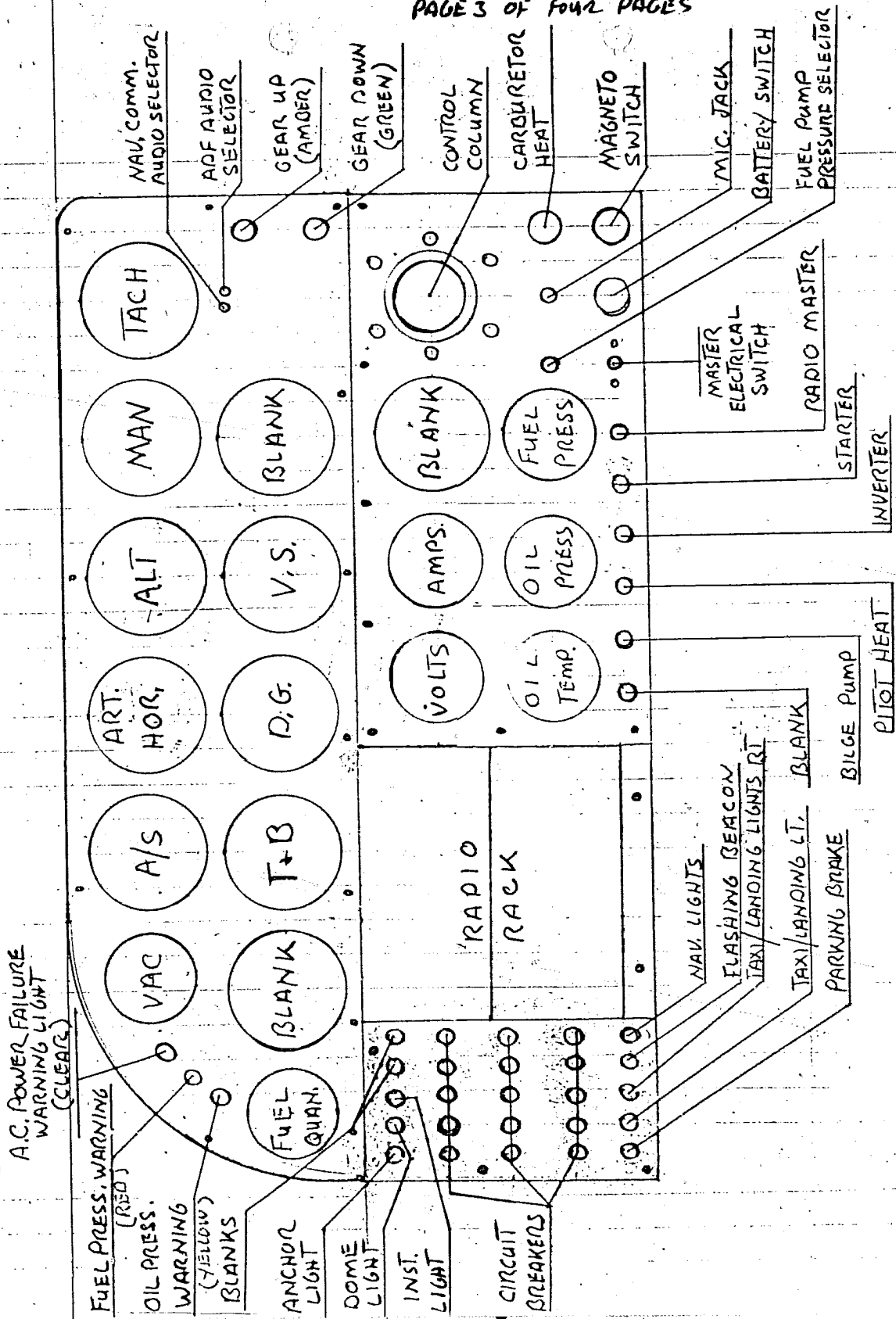
DIRECTION OF FORCE APPLIED (AC 43.13-2:1d)
(CAR 3)

SIDEWARD	$1.5g \times 36 = 54 \text{ LBS.}$
UPWARD	$3.0g \times 36 = 108 \text{ LBS.}$
FORWARD	$2.0g \times 36 = 72 \text{ LBS.}$
DOWNWARD	$6.6g \times 36 = 237.6 \text{ LBS.}$

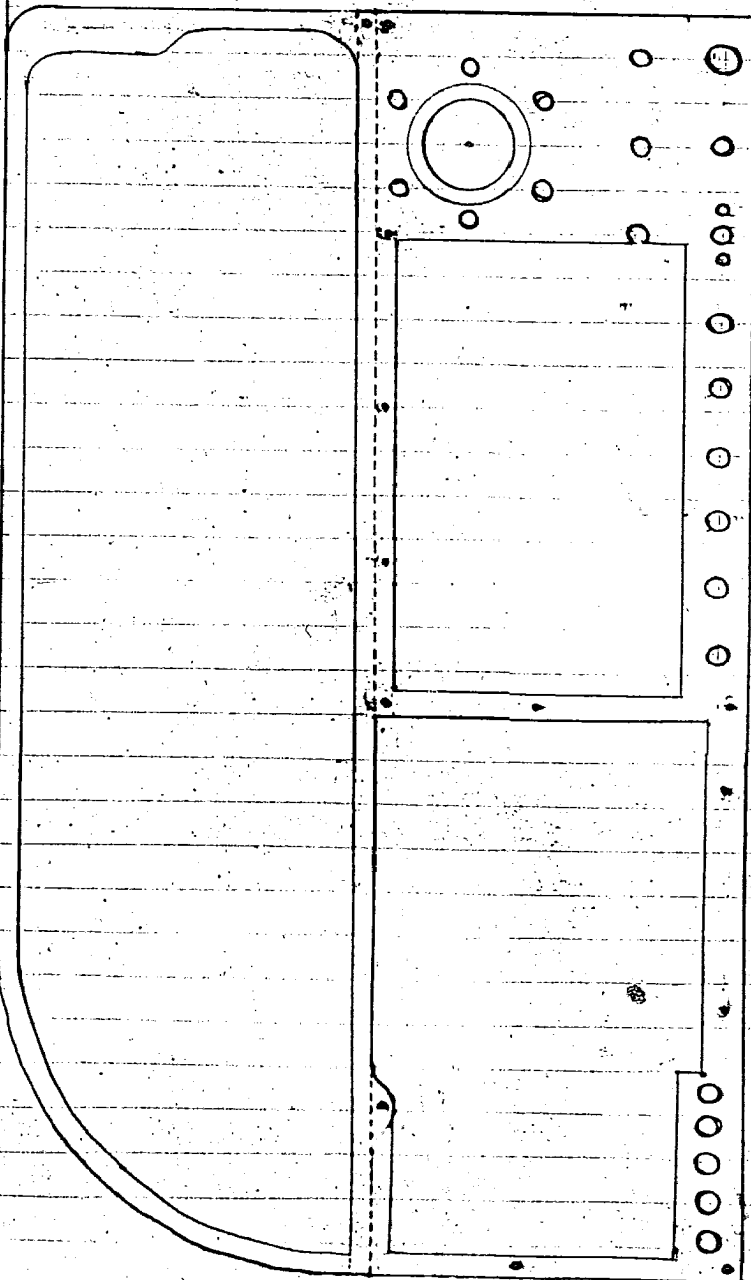
LOAD APPLIED AS DESCRIBED IN AC43.13-2

CHAPTER 1 PAR. 3d

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INSTRUMENT PANEL FRAME CUT OUT