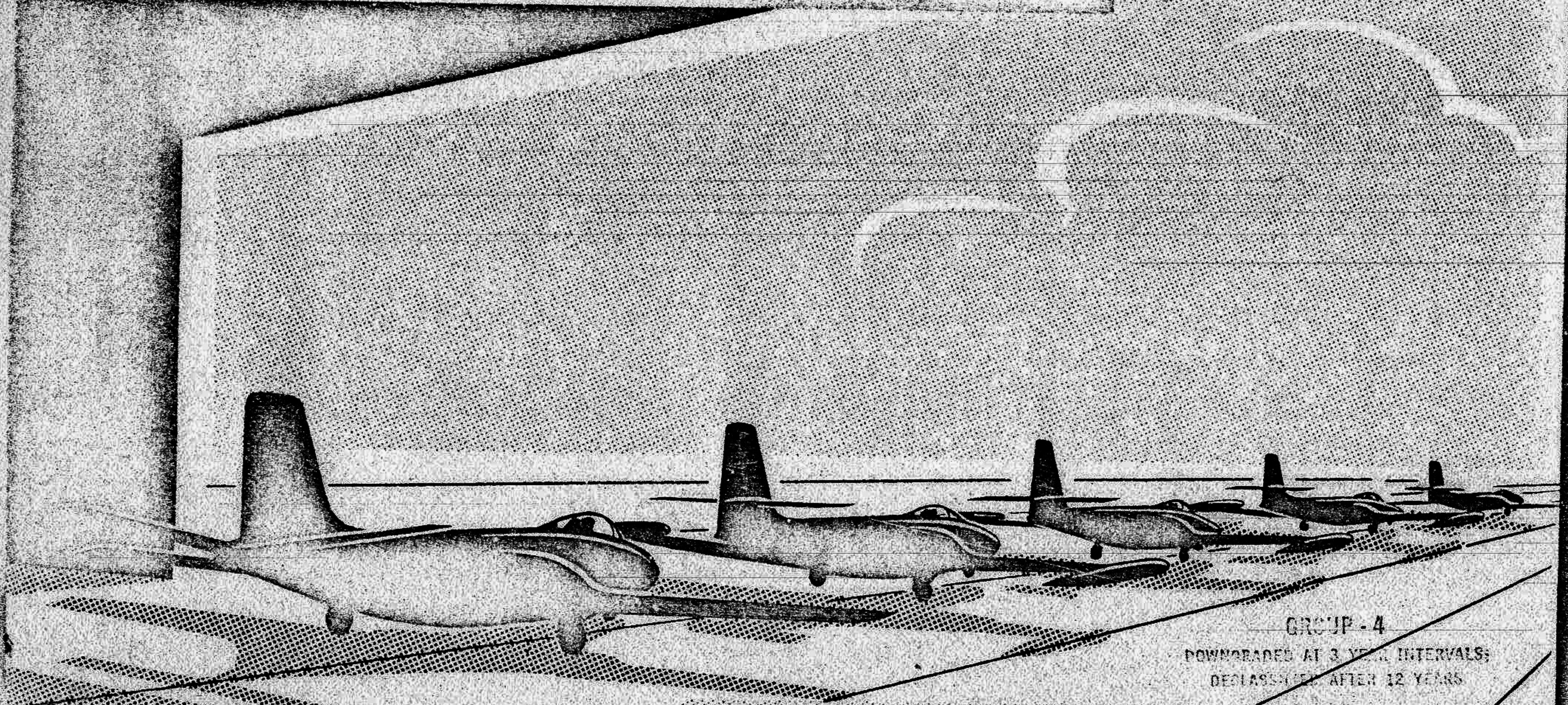
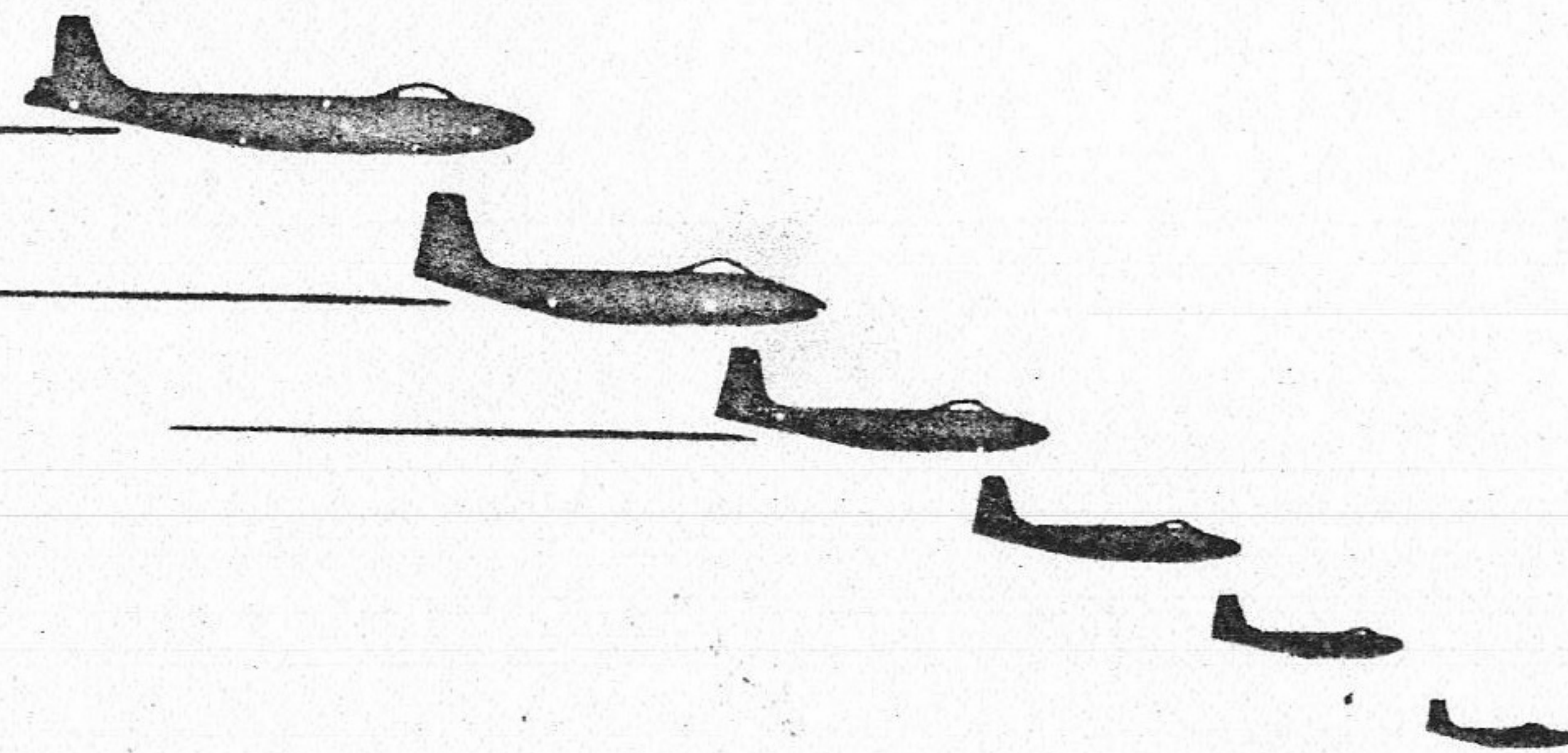


DIFFERENCES AND  
SIMILARITIES



GROUP - 4  
DOWNGRADED AT 3 YEAR INTERVALS;  
DECLASSIFIED AFTER 12 YEARS

# F2H SERIES AIRCRAFT



## INTRODUCTION

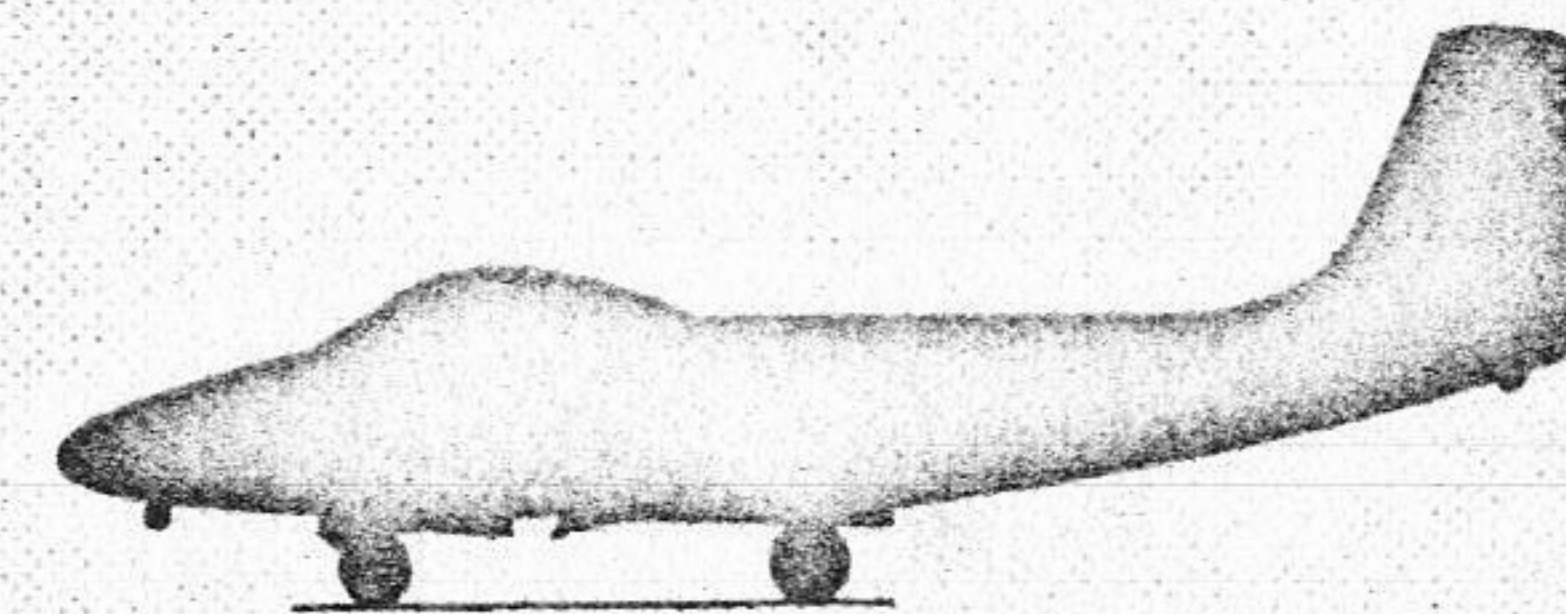
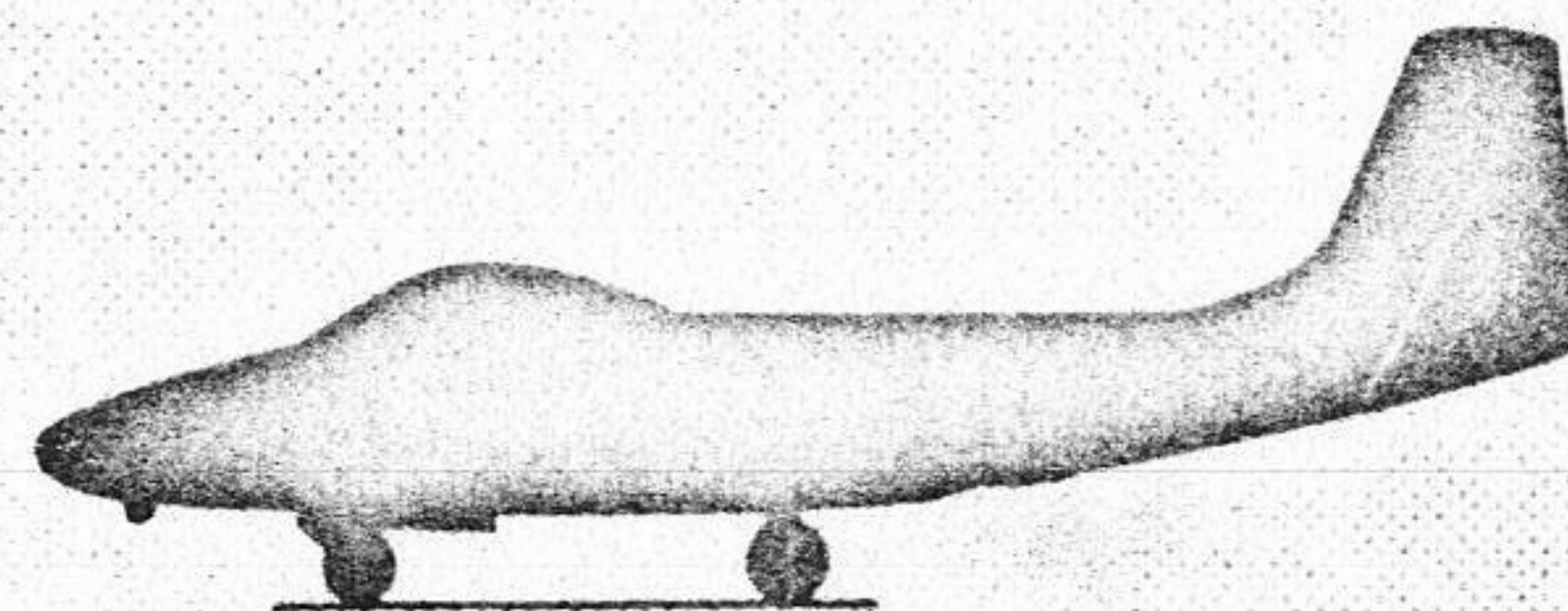
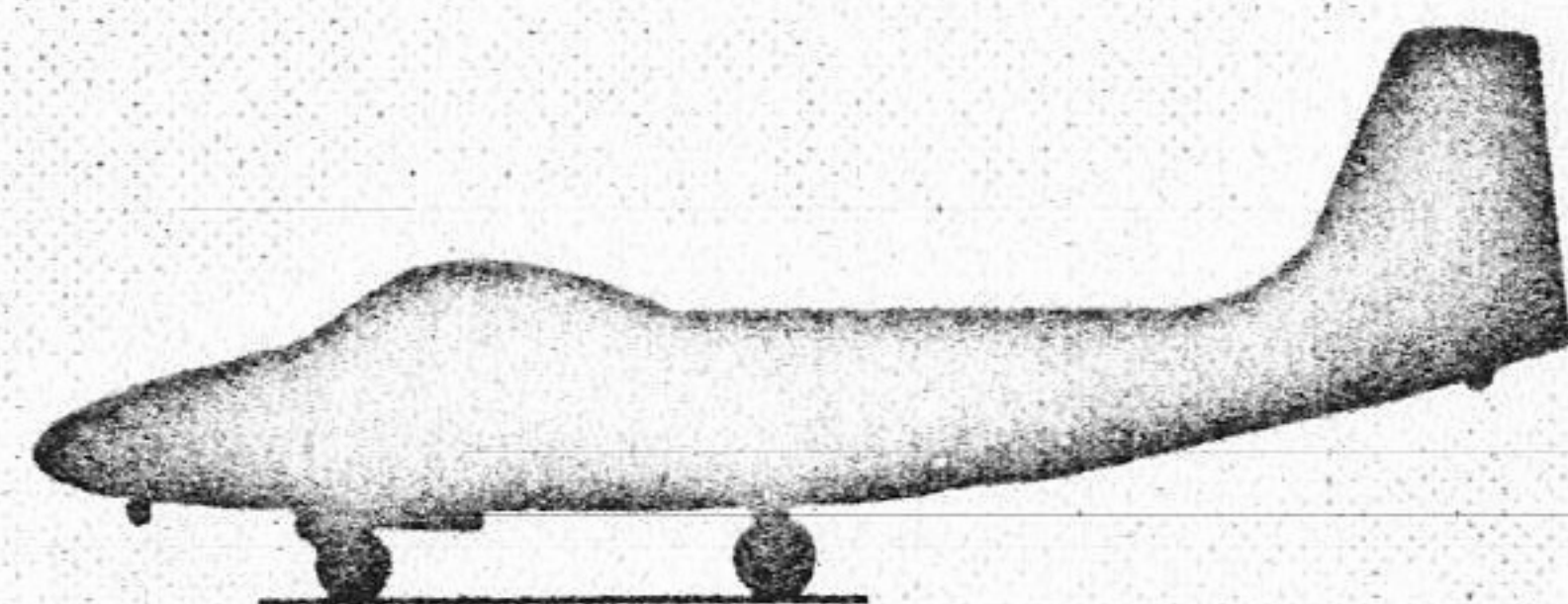
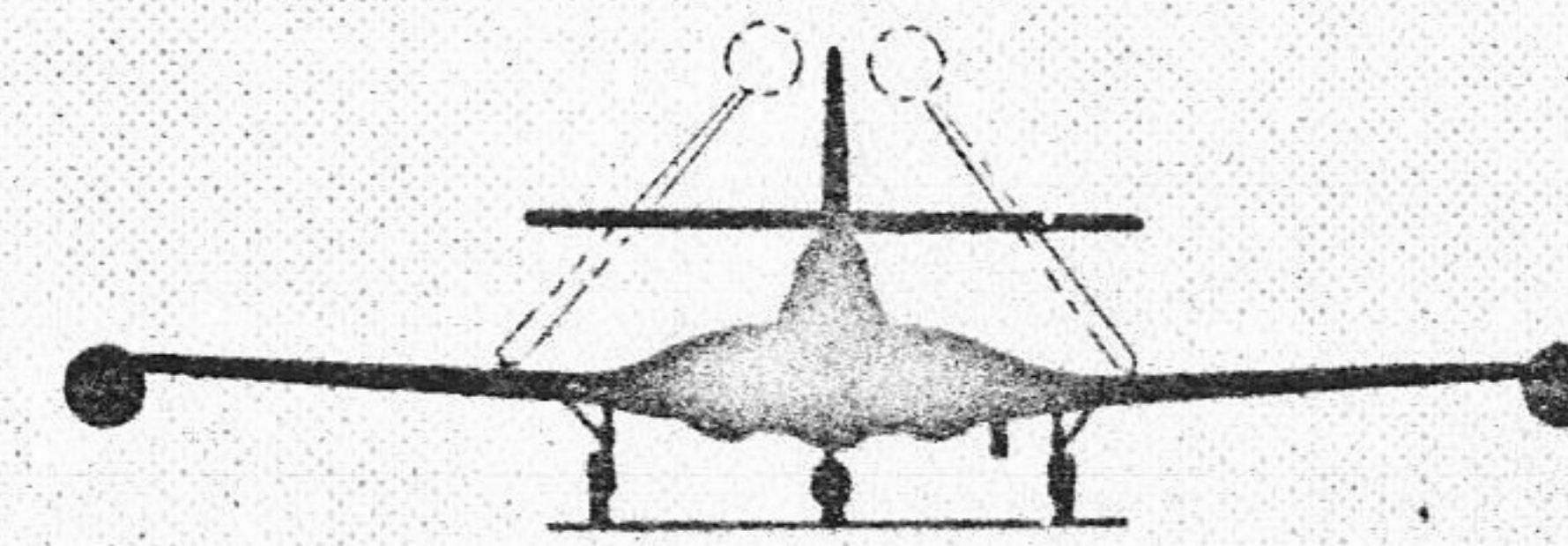
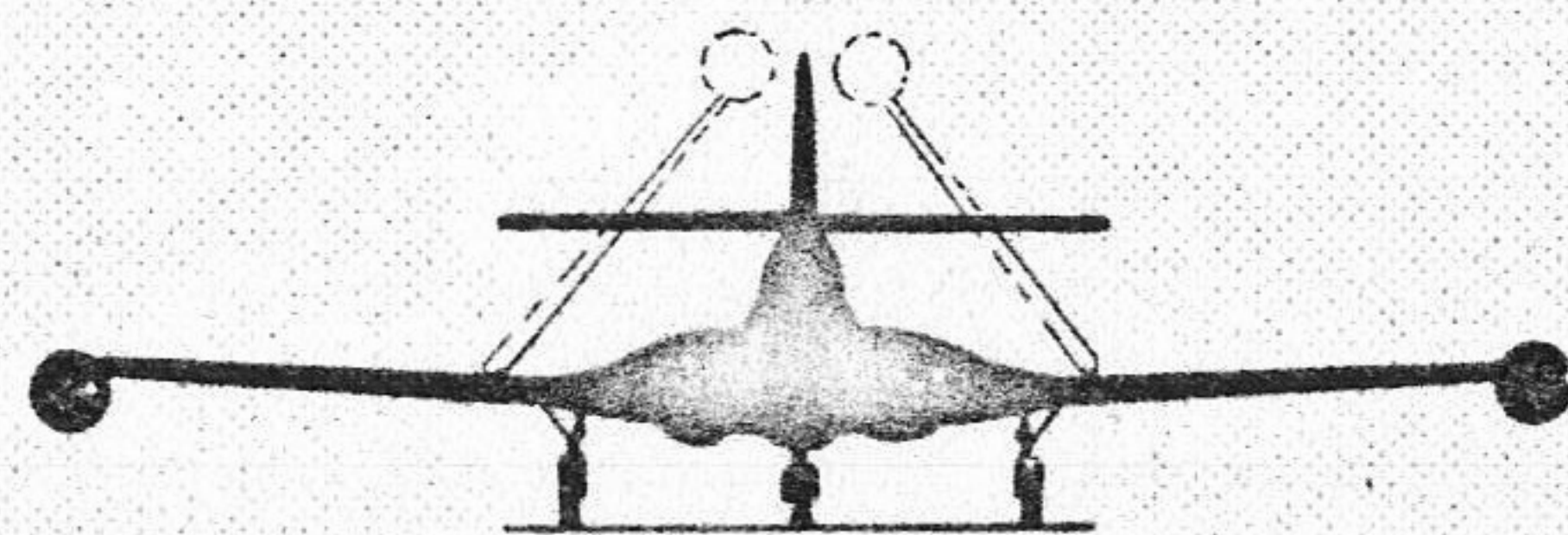
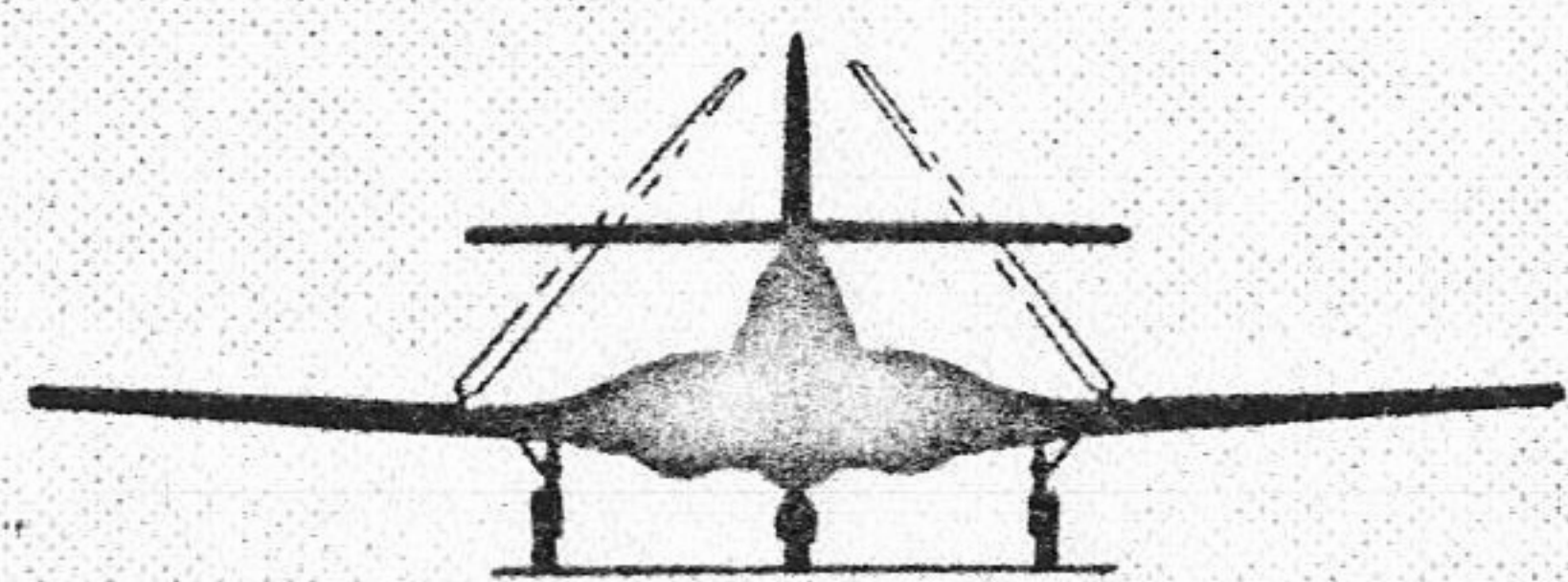
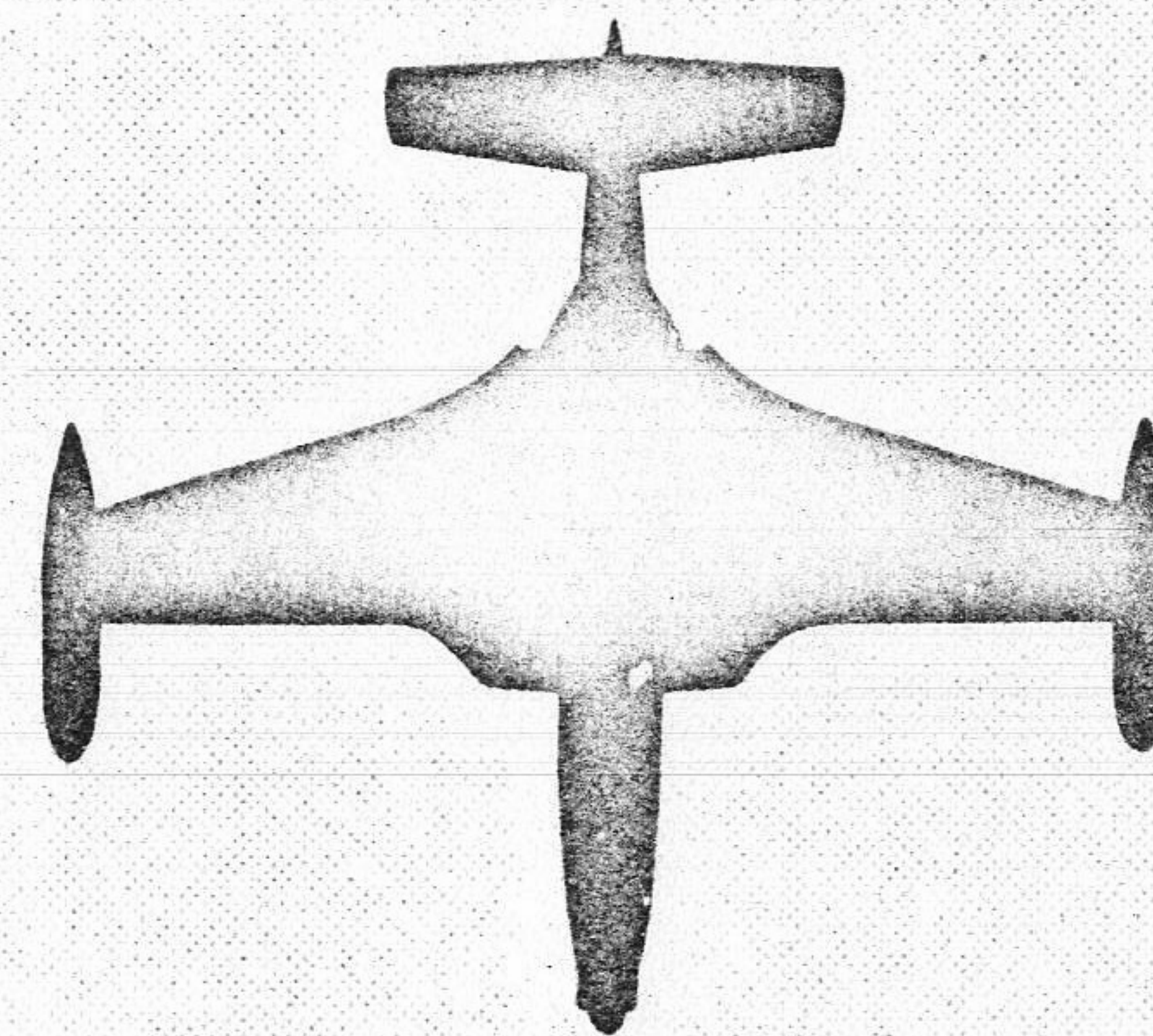
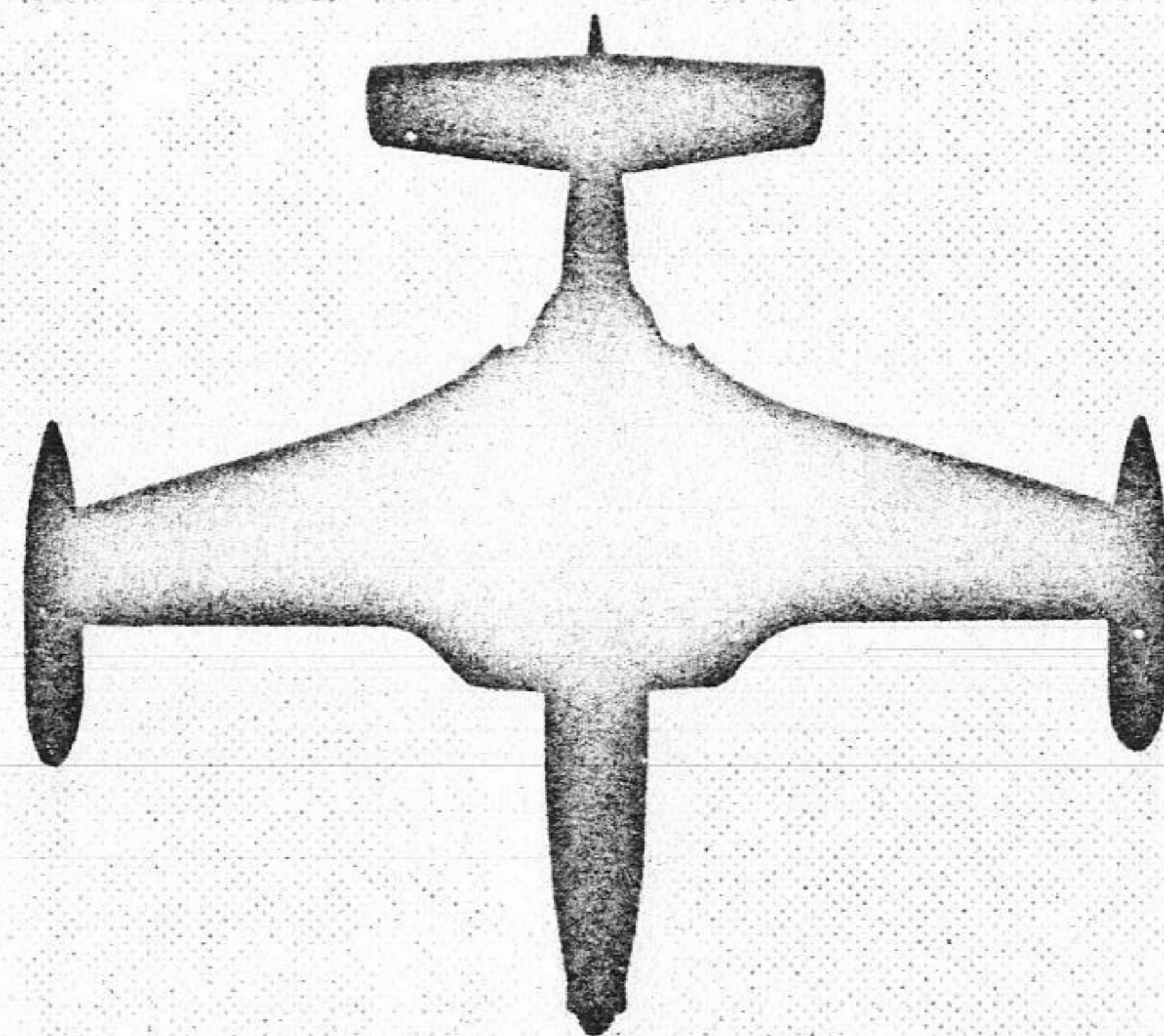
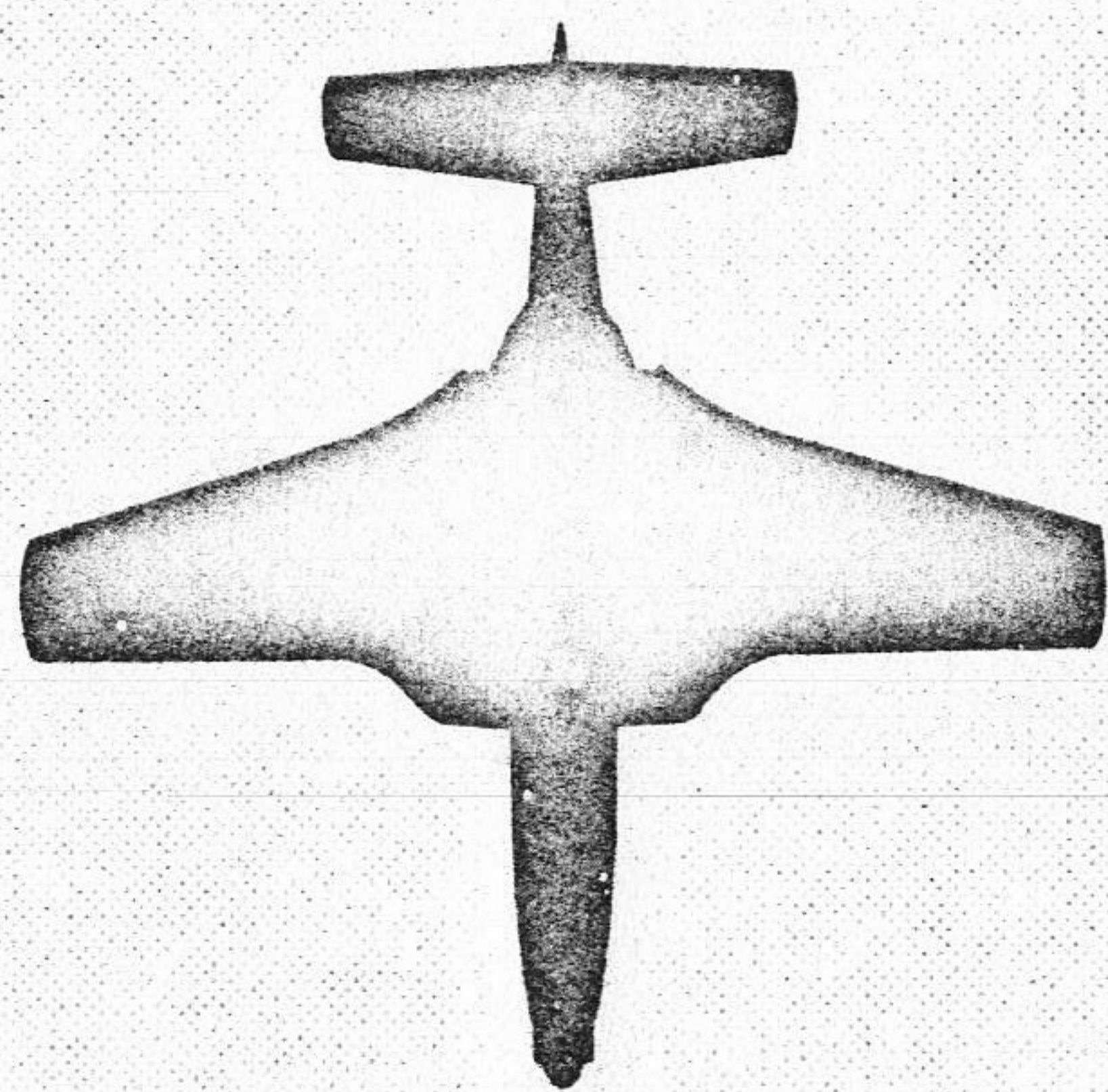
THIS PUBLICATION IS TO ACQUAINT PERSONNEL WITH THE ESSENTIAL DIFFERENCES AND/OR SIMILARITIES WHICH EXIST BETWEEN EACH VERSION OF THE F2H SERIES AIRCRAFT. THE PART NUMBERS USED IN THIS PUBLICATION ARE BASIC NUMBERS WITH NO ATTEMPT TO INDICATE LATEST CHANGE OR MODIFICATION.

REPORT NO. 2937  
19 JANUARY 1953

**MCDONNELL** *Aircraft Corporation*

GROUP - 4  
DOWNGRADED AT 3 YEAR INTERVALS;  
DECLASSIFIED AFTER 12 YEARS

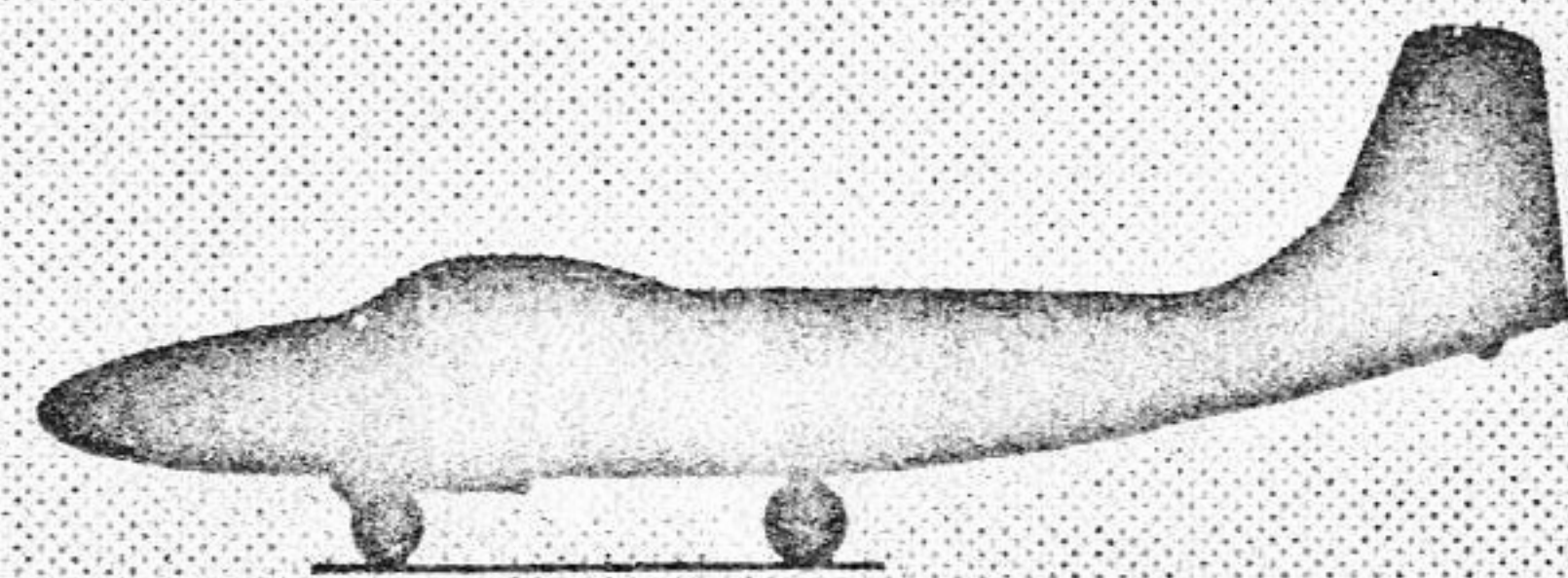
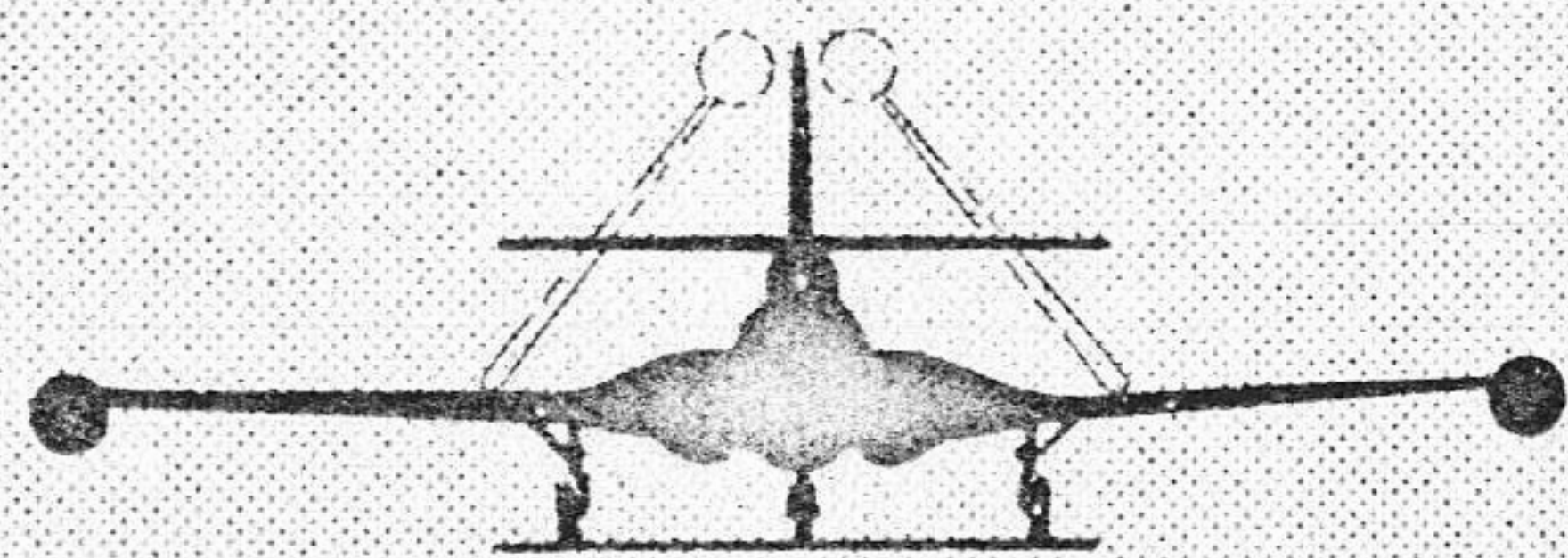
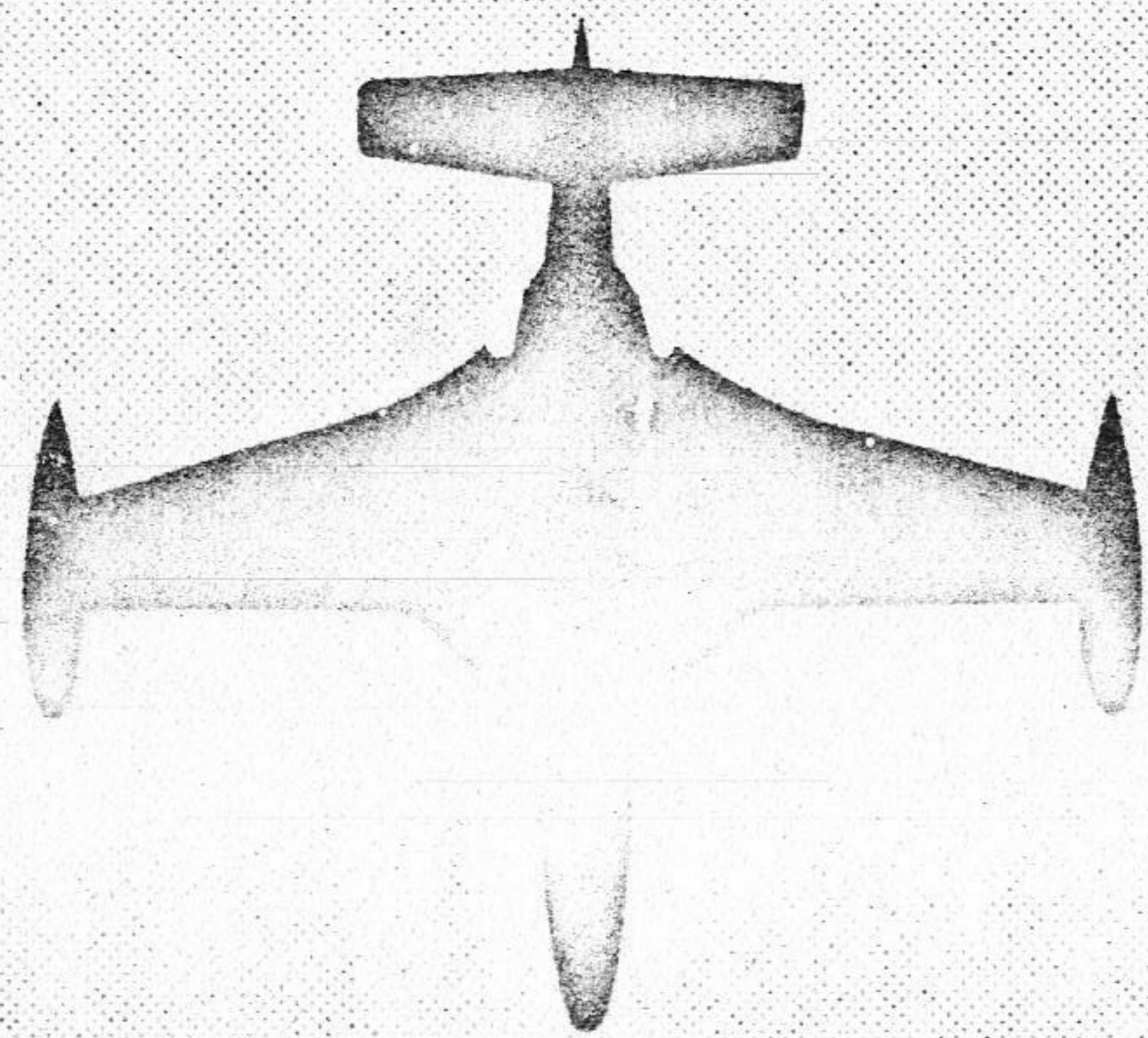
# F2H SERIES AIRCRAFT



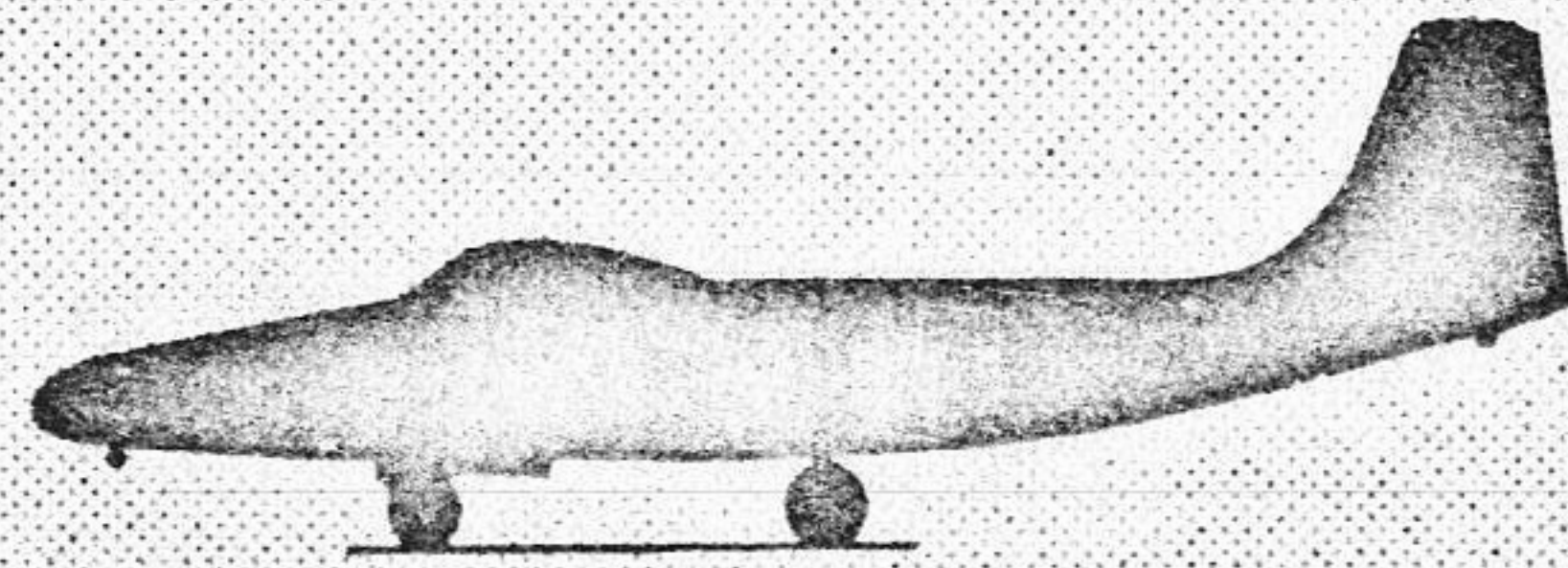
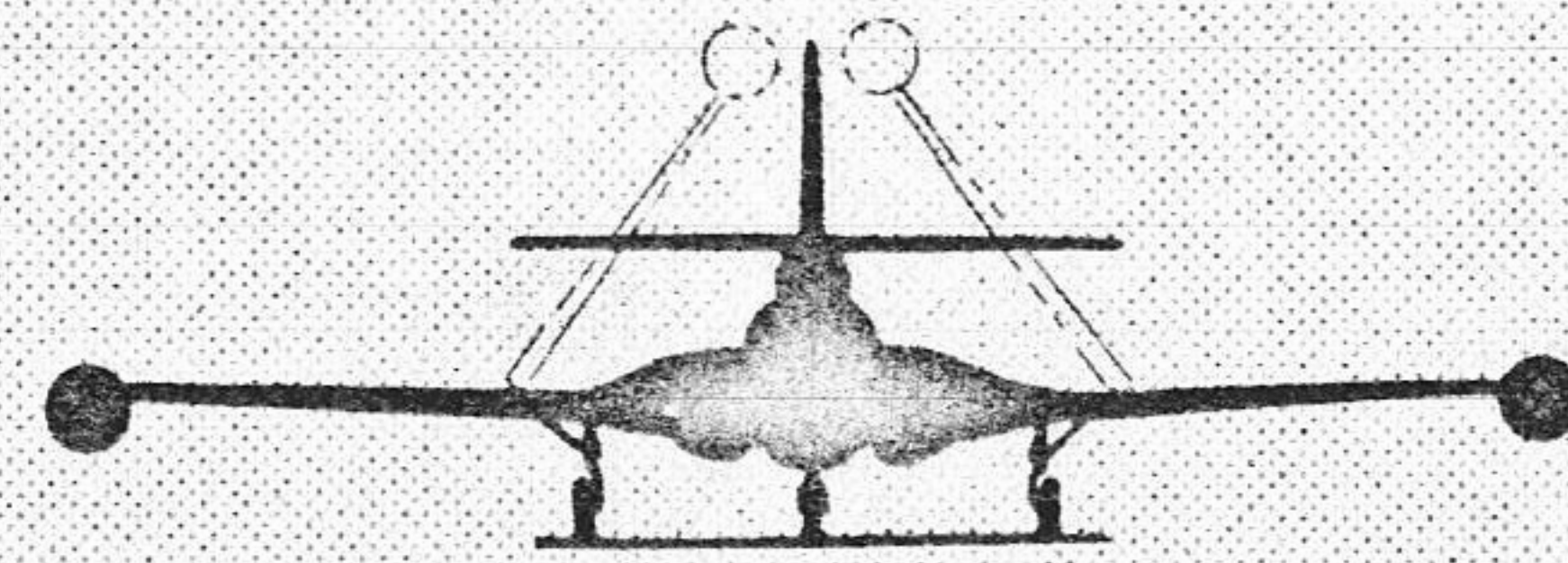
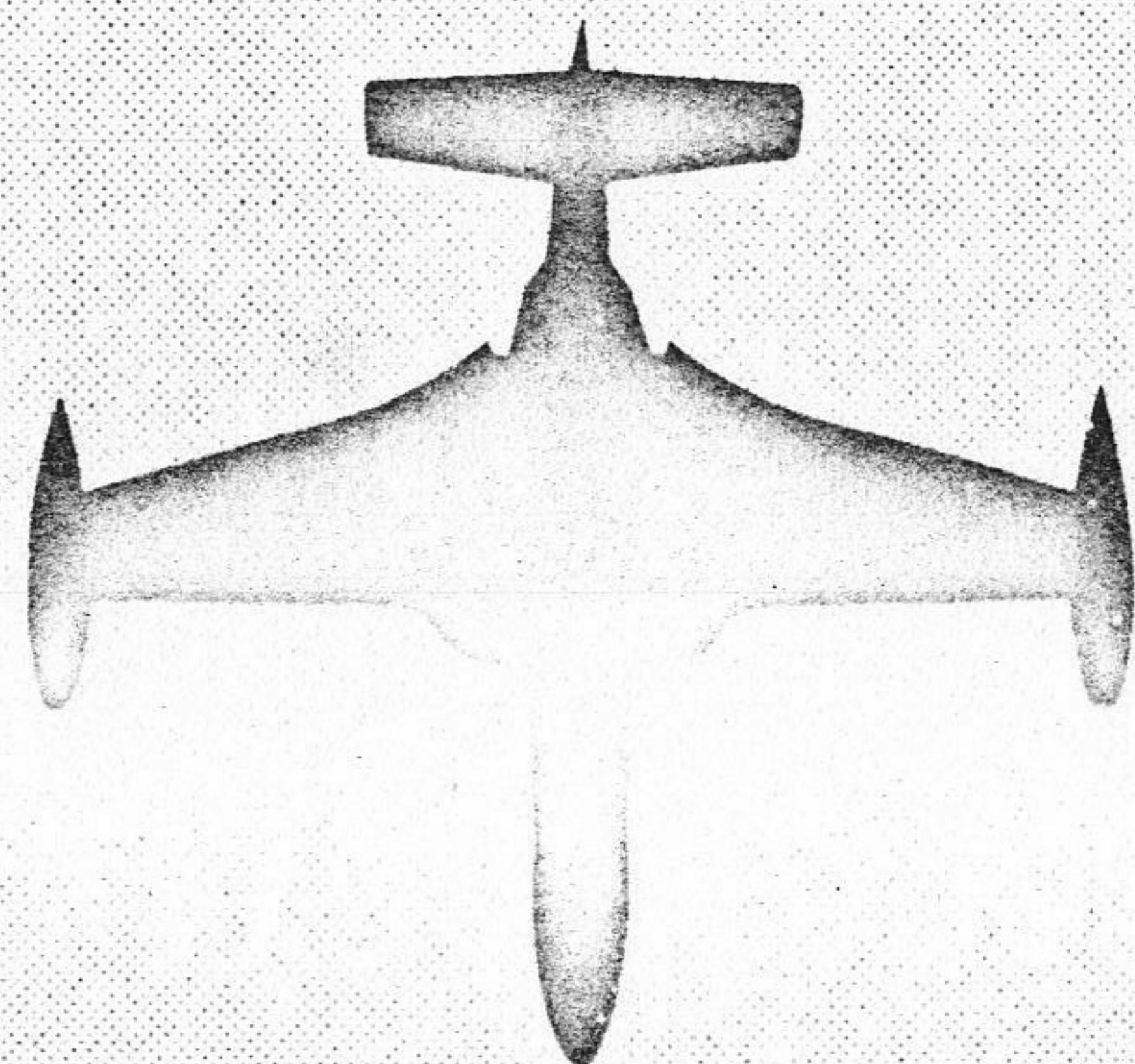
F2H-1

F2H-2

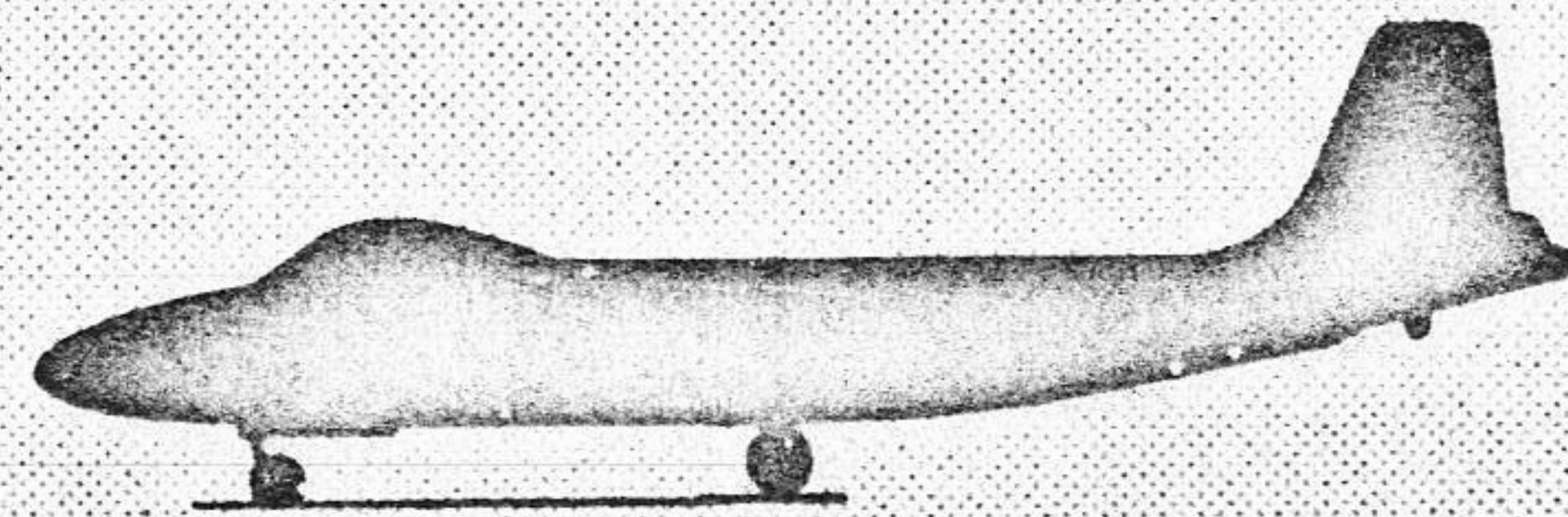
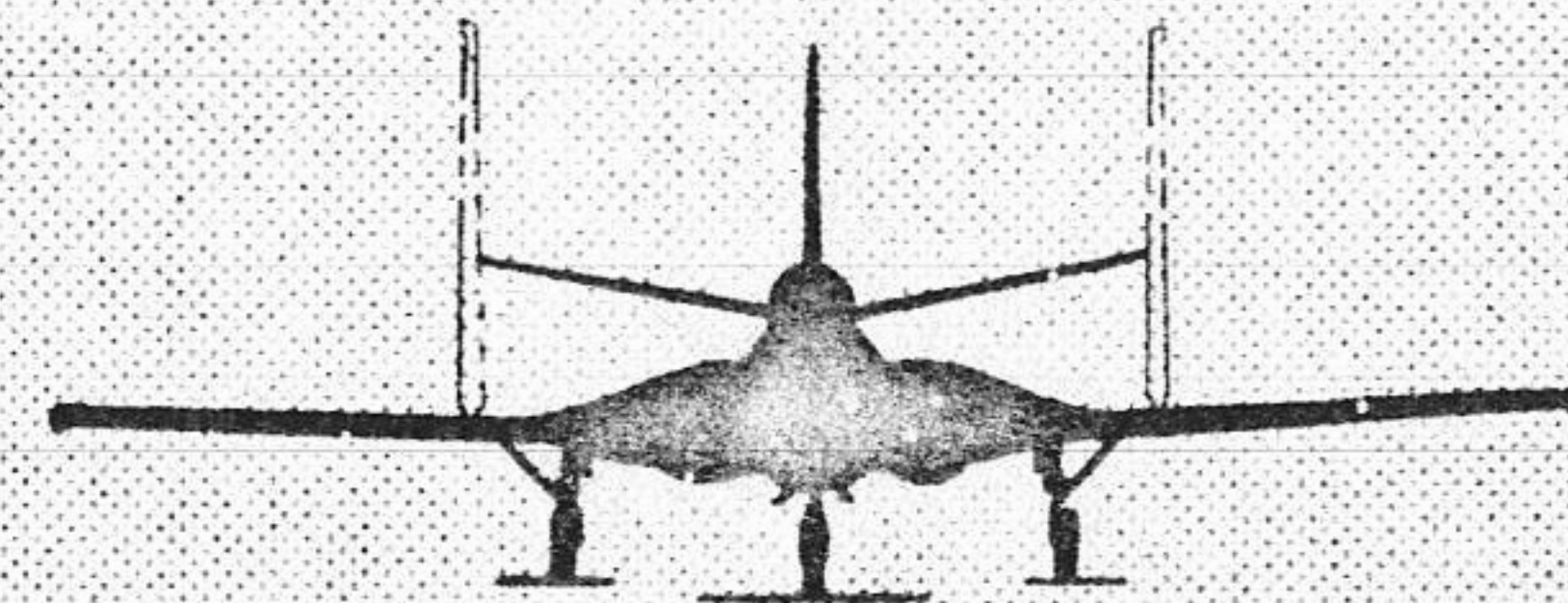
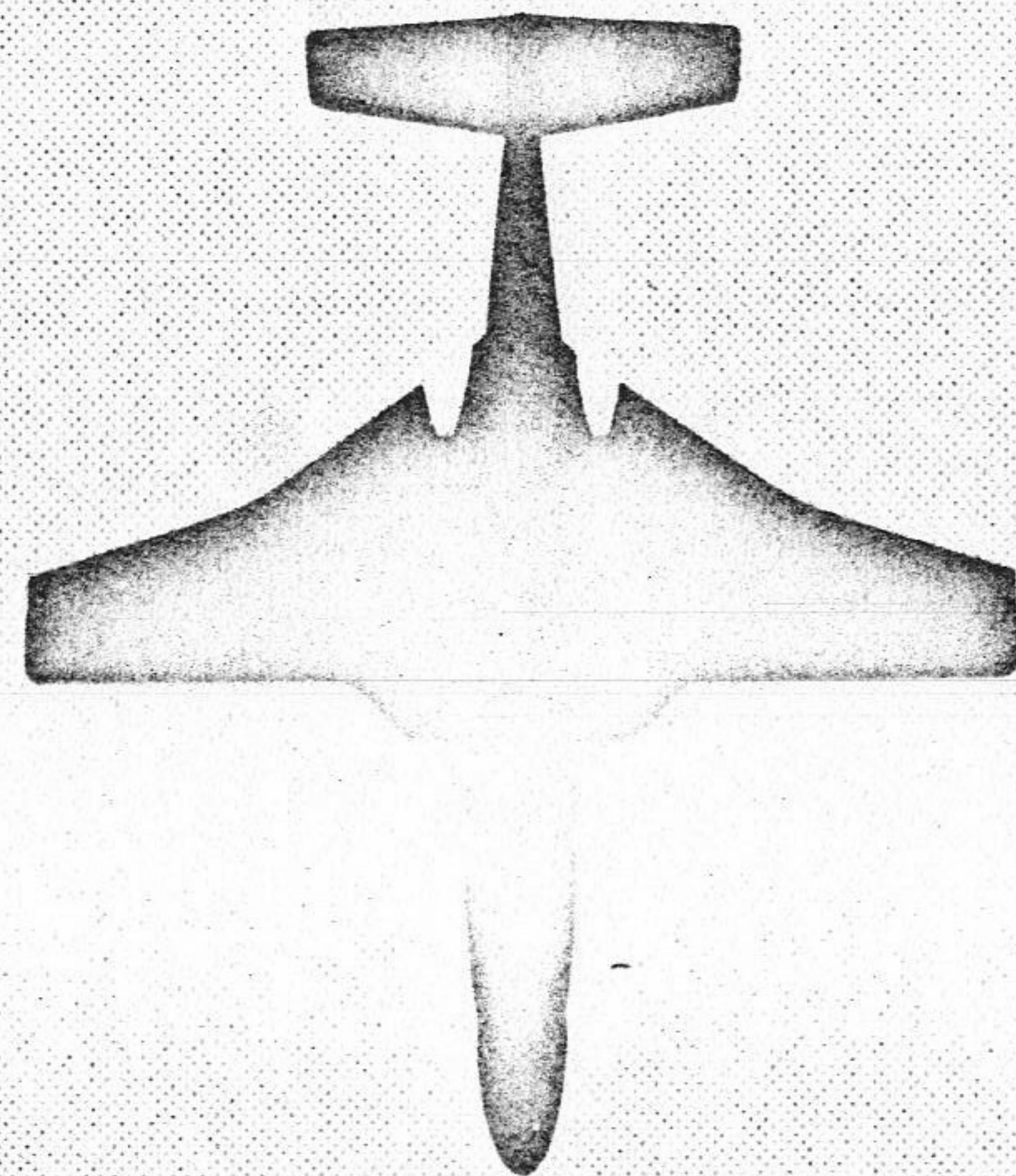
F2H-2B



F2H-2N



F2H-2P



F2H-3 & -4

# THE BANSHEE

	F2H-1	2	2B	2N	2P	-3	4
<b>PERFORMANCE</b>							
MAX. SPEED, S/L (KTS.) (C.G.W.)	510	510	510	510	505	513	
MAX. SPEED, 35,000 FT. (KTS.) (C.G.W.)	461	460	460	460	457	459	
TIME TO CLIMB, 30,000 FT. (MIN.) (T.O.G.W.)	6.4	7.4	7.3	7.4	7.5	7.3	
SERVICE CEILING (C.G.W.)	49,300	48,500	47,700	48,500	47,400	46,500	
MAX. MACH (DIVE)			.85			.96	
S/L RATE OF CLIMB (F.P.M.) (T.O.G.W.)	7,300	5,950	5,980	5,930	5,620	5,900	
COMBAT RADIUS (F-5 MISSION) (T.O.G.W.)							
WITHOUT TIP TANKS	403	400	402	398	382	499	
WITH TIP TANKS (TIP TANKS FOR THE -3 ARE FOR SPECIAL MISSIONS ONLY)		645	647	643	616	686	
ENDURANCE (MAX. HRS.)	3.3	4.5	4.5	4.5	4.3	5.2	
V STALL (T.O.W.) (KTS.) (POWER ON)	93	104	104	104	104	105	
V STALL (L.W.) (KTS.) (POWER ON)	82	85	85	85	86	90	
WAVE-OFF RATE OF CLIMB (F.P.M.) (L.W.)	2,730	2,245	2,250	2,230	1,930	1,760	
WING LOADING (LBS/SQ. FT.)	55	70	69.5	70.5		72	
(C.G.W.) COMBAT GROSS WEIGHT (T.O.G.W.) TAKE-OFF GROSS WEIGHT (L.W.) LANDING WEIGHT							

# THE **BANSHEE**

	F2H-1	2	2B	2N	2P	3	4
<b>WEIGHT</b>							
TAKE-OFF GROSS WT.	16,200	20,555	20,500	20,600	20,700	21,200	
COMBAT GROSS WT.	14,300	16,800	17,500	16,800	16,900	18,000	
MAX. T.O. GROSS WT. (HEAVIEST EXT. STORE)		21,000	23,040			28,500	
<b>RESTRICTIONS</b>							
<b>ACCELERATIONS (MAX.)</b>							
POSITIVE	7.5 G (14,000 LBS)		6.4 G (16,400 LBS)			7.5 G (18,600 LBS)	
NEGATIVE	2.8 G (14,000 LBS)		2.5 G (16,400 LBS)			3.0 G (18,600 LBS)	
<b>OPERATING DEVICES (LIMIT SPEED)</b>							
LANDING GEAR				174 KTS.			
FLAPS				165 KTS.			
ARRESTING GEAR	174 KTS.			225 KTS.			
SPEED BRAKES (OPENING)	447 KTS.			NO LIMIT		570 KTS. (IAS)	
CANOPY				300 KTS.			
TIP TANK (FUEL ABOARD)						400 KTS. IAS OR .8 MACH NO.	

# THE BANSHEE

F2H-1      2      2B      2N      2P      3      4

## DIMENSIONS

### SPAN

WITHOUT TIP TANKS

41'7.4"

41'8.8"

WITH TIP TANKS

44'11.9"

45'0"

WINGS FOLDED

18'5.6"

18'5"

### HEIGHT

MAX. DURING WINGFOLDING

WITHOUT TIP TANKS

16'6.5"

16'7.2"

WITH TIP TANKS

18'2.6"

17'1.8"

WINGS FOLDED

WITHOUT TIP TANKS

14'9.1"

15'0.2"

16'7.2"

WITH TIP TANKS

16'8.5"

17'1.8"

### LENGTH (OVERALL)

40'1.8"

40'0.4"

42'5.2"

42'10.5"

48'2"

### WINGS

CHORD

127.57"

127.61"

INCIDENCE

-1/2°

DIHEDRAL

3°

AREA

294.1 SQ. FT.

# THE BANSHEE

- STABILIZER
- CHORD
- INCIDENCE
- DIHEDRAL
- SPAN
  
- JACK PAD ASS'Y
- AIR DUCT GUARD - LEFT
- AIR DUCT GUARD - RIGHT
- OUTER WING HAND. RING
- SLING - A/C HOISTING
- COCKPIT COVER
- ENGINE EXHAUST COVER
- ENGINE COMPT. DUCT COVER

F2H-1    -2    -2B    -2N    -2P    -3    -4

40.6"	58"	
	0°	-1 1/2°
	0°	10°
18' 1.55"	18' 8.72"	17' 10.6"

## GROUND HANDLING EQUIPMENT

	MDE1502	
	MDE1507-1	MDE2363-1
	MDE1507-2	MDE2363-2
	MDE1508	
MDE1509	MDE1509-301	MDE2305
	MDE1510	
	MDE1511	
	MDE1563	MDE2340



# THE BANSHEE

	F2H1	2	2B	2N	2P	3	4
BRACKET-GUNSIGHT RECORD. CAMERA			MDE1581				
HANDLE-C. S. JURY STRUT FITTING REMOVAL			MDE1591-3				
JURY STRUT ASS'Y			MDE1599-1			MDE2335-1, -2	
FITTING-O. P. JURY STRUT			MDE15116-3				
FITTING-C. S. JURY STRUT			MDE15117-1				
HOOK-BLIND FLYING, CANOPY			15-35580				
HOOD-BLIND FLYING, WINDSHIELD			15-35581				
CONTROLS LOCK ASS'Y	MDE1505		MDE15137-1			MDE2302-1	
PLUG ASS'Y-L. H. DUCT						MDE2333-1	
PLUG ASS'Y-R. H. DUCT						MDE2333-2	
PENDANT ASS'Y-NOSE HOISTING, ETC.						MDE2326-1	
REFRIG. INLET DUCT-COVER						MDE2336-1	
GEN. COOLING DUCT-COVER						MDE2351	
TURBINE EXHAUST-COVER						MDE2352	
PITOT STATIC-COVER						MDE2354	
LOOSE EQPT. STORES						MDE2359	
DOLLY-NOSE HANDLING						MDE2360	

**THE BANSHEE**

F2H-1    2    2B    2N    2P    3    4

HOSE ASS'Y - HYD. SYSTEM DRAIN  
 AIRSTREAM DIRECTION DETECTOR-COVER  
  
 GAGE-NOSE UP & DOWN ADJ.  
 COMPRESSION ASS'Y -DASHPOT  
 WRENCH-20MM GUN FEED  
 TRACK ASS'Y -GUN REMOVAL  
 CRANK-SPEED BRAKE ADJ.  
 WRENCH-CABIN PRESSURE LINE  
 WRENCH-SPEED BRAKE SPANNER  
 RIGGING TEMP. -CONTROL STICK  
 SETTING GAGE-TIP TANK ATTACHMENT  
 WRENCH-METERING PIN NOSE OLEO  
 WRENCH-METERING PIN MAIN OLEO  
 COCKING TOOL-TIP TANK RELEASE  
 WRENCH-VENT SYSTEM  
 COMPRESSOR ASS'Y-SPEED BRAKE

MDE 2362  
 SLZ2016

**SPECIAL TOOLS**

MDT1503  
 MDT1505 MDT1505-301  
 MDT1506  
 MDT1507  
 MDT1509  
 MDT1510  
 MDT1511  
 MDT1519 MDT1519-1  
 MDT1523-1  
 MDT1524  
 MDT1525  
 MDT1527-1 MDT1536-1  
 MDT1530  
 MDT1513

**THE BANSHEE**

	F2H-1	2	2B	2N	2P	3	4
COCKING TOOL-TIP TANK RELEASE							MDT1536
WRENCH-2 7/8 FLEX. COUPLING							MDT1537
STOP GAGE-WING DOWN STOP-FORWARD							MDT1538-1
STOP GAGE-WING DOWN STOP-AFT							MDT1539-1
DISASSEMBLY TOOL-AIL. RATIO CHANGER							MDT2302
WRENCH-PERSONNEL EJECTION CATAPULT							NAF400307-1
ARMING TOOL-PERSONNEL EJECTION CATAPULT							NAF400307-4
WRENCH-EMERGENCY FUEL PUMP INLET PLUG							MDE1518

**THE BANSHEE**

F2H 1 2 2B 2N 2P 3 4

**SETTINGS AND RANGES OF MOVEMENTS  
OF CONTROL SURFACES**

**AILERONS**

UP

20° 6.43"

DOWN

20° 6.43"

BOOST OR POWER OFF

10° 3.21"

TAB (TRIM)

UP

10° 1.06"

DOWN

10° 1.06"

TAB (BALANCE)

UP

8°-14°-20°

8° .80"

DOWN

8°-14°-20°

8° .80"

**ELEVATORS**

UP

15° 4.32"

15° 4.39"

DOWN

15° 4.32"

15° 4.39"

TAB (TRIM)

UP

20° 1.83"

10° .92"

19° 1.80"

DOWN

20° 1.83"

20° 1.84"

7°

**THE BANSHEE**

	F2H-1	2B	2N	2P	3	4
TAB SPRING						
UP		16.5° 1.51"			NOT USED	
DOWN		16.5° 1.51"			NOT USED	
<b>RUDDER</b>						
RIGHT		20° 7.57"			20° 7.22"	
LEFT		20° 7.57"			20° 7.22"	
TAB (TRIM)						
RIGHT			10° .78"			
LEFT			10° .78"			
TAB (ANTI-BALANCE)						
RIGHT	27.5° 2.15"	25.75° 2.0"			15° 1.17"	
LEFT	27.5° 2.0"	25.75° 2.0"			14.5° 1.12"	
<b>FLAPS</b>						
DOWN (TRAVEL)			60°			

**THE BANSHIRE**

F2H-1    -2    -2B    -2N    -2P    -3    -4

**AIRFRAME**

**WINGFOLD**

TYPE

ELECTRICAL

HYDRAULIC

ACTUATOR-MAKE & MODEL NO.

AEROPRODUCTS  
A-7618-4

WESTINGHOUSE  
A-45-J-237

MAC  
23-14000

**SURFACE CONTROLS**

AILERONS

POWER BOOST

POWER OPERATED

ELEVATORS

SPRING TAB

POWER OPERATED

RUDDER

MANUAL

FLAPS

ACTUATOR-MAKE & MODEL NO.

ELECT. ENGR. &  
MFG. CO. EE3880M2

**SPEED BRAKES**

ACTUATOR-MAKE & MODEL NO.

FOOTE BROS.  
29501-J

FOOTE BROS.  
29501-J  
(123204-123245)  
33401  
(123246-125679)

FOOTE BROS.  
29501-J  
(123300-302)  
33401  
(123303-313)

FOOTE BROS.  
33401

FOOTE BROS.  
39801

**CANOPY**

ACTUATOR-MAKE & MODEL NO.

37659-01

D12-AF-1  
(123204-123382)  
R-624  
(124940-125679)

D12-AF-1

R-624  
OR  
R-624-1

R-624-1

# THE BANSHEE

F2H-1    -2    -2B    2N    -2P    -3    -4

## MAIN GEAR

### STRUTS

MODEL & PART NO.

FLUID

EXTENSION (TAKE-OFF WEIGHT)

FULL TIP TANKS

EMPTY TIP TANKS

ACTUATOR-MAKE & PART NO.

WHEELS-MODEL & PART NO.

### TIRES

SIZE

PRESSURES (MAX.)

ABOARD

ASHORE

BRAKES-MODEL & PART NO.

## LANDING GEAR

BENDIX  
156610

MAC  
15-41500

MAC  
23-41001

AN-C-366

2.00"

2.35"

2.7"

2.3"

AEROPRODUCTS  
A7619-1

AEROPRODUCTS  
A7619-2

AEROPRODUCTS  
A7619-3

GOODYEAR  
9530174

GOODYEAR  
9540568  
OR  
9540633

GOODYEAR  
9540633

26 X 6.6

170

245

145

225

170

GOODYEAR  
9530174

GOODYEAR  
9530326

GOODYEAR  
9540612

**THE BANSHEE**

	F2H-I	2	2B	2N	2P	3	4
<b>BRAKE CYLINDER</b>							
MODEL & PART NO.	BENDIX 413480				BENDIX 413480-3-1		
FLUID					AN-0-366		
<b>NOSE GEAR</b>							
<b>STRUT</b>							
MODEL & PART NO.	BENDIX 156615		MAC 15-45500			MAC 23-45006-1	
FLUID					AN-0-366		
EXTENSION (TAKE-OFF WEIGHT)	2.0"		SEE NOTATION ON STRUT			2.57"	
<b>SHIMMY DAMPER</b>							
MODEL & PART NO.			HOUDE A-14333			HOUDE A-16828	
FLUID					AN-0-366		
<b>WHEEL-MODEL &amp; PART NO.</b>							
	GOODRICH G-3-341-1M		GOODYEAR 9530331 OR 9530831			GOODYEAR 9530831	
<b>TIRE</b>							
SIZE	22 X 7.25 X 11.5				22 X 5.15		
PRESSURE	80 PSI				115 PSI		



# THE BANSHEE

F2H-1      2      2B      2N      2P      3      4

**PUMP** -MODEL & PART NO.

OPERATING PRESSURE

RESERVOIRS - NUMBER

**RESERVOIRS** - CAPACITY

LEFT

RIGHT

MAIN

FLUID-TYPE

**ACCUMULATOR**

MODEL & PART NO.

**COMPRESSOR**

MODEL & PART NO.

**AIR BOTTLES**

NUMBER

CAPACITIES

NO. 1 OR PRIMARY

NO. 2 OR GUN FEED

## HYDRAULIC

(2) N.Y. AIR  
BRAKE  
167F050C2

(2) N.Y. AIR  
BRAKE  
167K050

(2) N.Y. AIR  
BRAKE  
67VB200

1670 PSI

1500 PSI

2

1

2.9 QTS.

2.2 QTS.

2.9 QTS.

2.2 QTS.

AN-0-366

2.4 GAL.

HYDROLUBE  
MIL-O-7083

MAC  
23-69070-1

## PNEUMATIC

CORNELIUS  
32-R-500-1

CORNELIUS  
130R0100-1

3

5

52 CU. IN.

57 CU. IN.

52 CU. IN.

514 CU. IN.

**THE BANSHEE**

F2H-1    -2    2B    -2N    -2P    -3    4

NO. 3 OR CANOPY EMER.  
NOSE GEAR EMERGENCY  
GUN CHARGER

**OPERATING PRESS.**

GUN FEEDER SYSTEM  
EMER. NOSE GEAR SYSTEM  
CANOPY EMER. SYSTEM  
GUN CHARGING SYSTEM  
ARRESTING GEAR SYSTEM

52 CU. IN.    205 CU. IN.  
205 CU. IN.  
96 CU. IN.  
500 PSI  
1500 PSI  
1500 PSI  
1500 PSI    1000 PSI  
1500 PSI

**UTILITY SYSTEMS**

**HEAT., VENT., PRESS.**

REFRIGERATION UNIT-MODEL

AIRESEARCH  
18709

AIRESEARCH  
80052

**OXYGEN SYSTEM**

NO. OF CYLINDERS  
CAPACITY (EACH)

1    2  
514 CU. IN.

# THE BANSHEE

F2H-1      2      2B      2N      2P      3      4

## POWER PLANT, FUEL, AND OIL

J34-WE-22 OR  
J34-WE-30

J34-WE-34

### POWER PLANT (2)

### FUEL SYSTEM

#### CAPACITIES

FWD. TANK

CENTER TANK

AFT TANK

STUB TANK (EACH)

TIP TANK (EACH)

### OIL SYSTEM

NO. OF TANKS

CAPACITY (EACH)

EXPANSION SPACE (EACH)

OIL-GRADE & TYPE

377 GAL.  
(2262 LBS.)

189 GAL.  
(1134 LBS.)

223 GAL.  
(1338 LBS.)

44 GAL.  
(264 LBS.)

200 GAL.  
(1200 LBS.)

2

3.25 GAL.

3.75 GAL.

MIL-O-6081  
(1010)

508 GAL.  
(3048 LBS.)

185 GAL.  
(1110 LBS.)

409 GAL.  
(2454 LBS.)

170 GAL.  
(1020 LBS.)

3.25 GAL.

THE **BANSHEE**

F2H-1 -2 2B 2N 2P -3 -4

AUTO PILOT

D.C. POWER

BATTERY-NO. & TYPE  
GENERATOR-NO. & TYPE

A.C. POWER

MAIN INVERTER  
AIR DRIVEN GENERATOR  
STANDBY INVERTER

RADIO ALTIMETER

IFF

VHF

UHF

**INSTRUMENTS**

BENDIX  
P-1

BENDIX  
P-3

**ELECTRICAL SYSTEM**

(1) AN3150-A

(2)E-1602-1

(2)E-1602-1  
(123204-123382)  
E-1603-1  
(124940 & UP)

(2)E-1603-1

(2)R17-1-7463

E1737-1

E-1699-1

E-1617-1

**RADIO AND RADAR**

AN/APN-1

AN/APX-1

AN/APX-1  
OR  
AN/APX-6

AN/APX-6

AN/ARC-1

AN/ARC-28

AN/ARC-1

AN/ARC-27

# THE BANSHEE

	F2H-1	2	2B	2N	2P	3	4
NAVIGATION RECEIVER	AN/ARR-2A						
RADIO COMPASS	AN/ARN-6						
ADF	ARA-25						
RADAR EQUIPMENT	AN/APG-30 (124940 & UP)		AN/APS-19A		AN/APQ-41	AN/APG-37	
<b>ARMAMENT</b>							
GUNS -TYPE & NO.	(4) M3 20MM			(4)MK 12 OR MK 16 20MM			
GUN CHARGING	PNEUMATIC AERO-7A			PNEUMATIC AERO-2A			
TYPE & NUMBER	SPRING (M2) WOUND			(M8) PNEUMATIC			
GUN FEED	150			220 UPPER 250 LOWER			
AMMUNITION							
ROUNDS PER GUN							

**THE BANSHEE**

F2H-1 2 2B 2N 2P 3 4

**ROCKETS AND BOMBS**

LAUNCHERS-TYPE & NO.

(8) AERO-14A

(8) AERO-14A

FIRE CONTROL SYSTEM

MARK 6

MARK 6  
(123204-123382)  
USED WITH  
AN/APG-30  
(124940 & UP)

MARK 6

MARK 6  
USED WITH  
AN/APQ-41

MARK 6  
USED WITH  
AN/APG-37

**PHOTOGRAPHIC**

NO. OF CAMERAS

1 4 1

TYPE

AN-N-6A

K17  
K18  
S-75  
K38