OXCART

FACTS

Approved for Release: 2017/01/11 C01396126

A-12 SPECIFICATIONS

55.621

ATRFRAME

WING SPAN

LENGTH 101. 6'

HEIGHT 18. 45'

LANDING GEAR

TREAD WIDTH 16. 67'

BASIC WEIGHT 52,700 LBS.

MAX GROSS WEIGHT 123, 600 LBS.

ENGINE

PRATT & WHITNEY J-58 (JTII D20)

THRUST 32,500 LBS.

AIRSPEED 3.2 MACH

ALTITUDE 100,000'

BY - PASS WITH AFTER BURNER

PERFORMANCE

DESIGN SPEED 3.2 MACH (1860K)

ALTITUDE 84,000 t'

RANGE (NO-REFUEL) 3,700 N.M.

A-12 EXPERIENCE RECORD (AS OF 10 JULY, 1967)

AIRCRAFT	
FIRST FLIGHT	26 APRIL 1962
TOTAL FLIGHTS	2470
TOTAL HOURS	4013:43
TOTAL FLIGHTS @ MACH 3.0	757
TOTAL HOURS @ MACH 3.0	455:49
LONGEST FLIGHT @ MACH 3.0	3:50 HRS.
LONGEST MACH. 3.2 TIME ON A	
SINGLE FLIGHT	3:30 HRS.
LONGEST SINGLE FLIGHT	
DURATION	7:40 HRS.
SPEED - MAX	3.29 MACH
ALTITUDE -MAX	90,000 FT.
J-58 ENGINES	
TOTAL ENGINE FLIGHTS	7,442
TOTAL ENGINE HOURS	14,109
TOTAL ENGINE FLIGHTS @ MACH	•
3.0	3, 184
TOTAL ENGINE FLIGHT HOURS @ MACH	•
3.0	1,774
TOTAL GROUND TEST HOURS	25, 263
TOTAL MACH 3.0 ENVIRONMENTAL	
GROUND TEST HOUR S	6,139
TOTAL 150 HOUR QUALIFICATION	
TESTS	6

INS

TOTAL FLIGHTS TOTAL FLIGHT OP TOTAL OPERATIN		HOURS	1,430 3,227 39,733
SAS AUTO PILOT			
TOTAL FLIGHTS			2,469
TOTAL FLIGHT HO	- · · ·		4,003
TOTAL OPERATIN	G HOURS		37,994
CAMERAS	•		
	l	11	111
TOTAL FLIGHTS	203	7.8	49
TOTAL FLIGHT			
OPERATING HRS.	156	65	26
TOTAL FLIGHT		•	
ABOVE MACH 3. 0	100	49	29
TOTAL HOURS @	0.4		
@ MACH 3.0	84	47	19
LONGEST FLIGHT @		0 0	
MACH 3.0	1.5	2.0	1.3

PILOTS (6)

AVERAGE PILOT EXPERIENCE	14.4 YEARS
AVERAGE TOTAL FLIGHT TIME	3998 HOURS
TIME IN A-12	87/353/452 HRS.
TIME IN PROJECT	.7/4.6 YEARS
AVERAGE A-12 FLIGHTS	223

LIFE SUPPORT

TOTAL SUIT FLIGHTS (DETACHMENT)

1751

EW S

TOTAL FLIGHT TESTS

110

DETACHMENT

ACTIVATED
TIME IN TRAINING AS A UNIT
AVERAGE TIME IN PROJECT
(PERSONNEL)

I OCTOBER 1960 1/54 MONTHS

40/44 MONTHS

OXCART A-12 AIRCRAFT:

INVENTORY

OPERATIONAL AIRCRAFT:

KADENA AB

3

AREA 51

3

TWO - SEAT TRAINER | FLIGHT TEST AIR-

CRAFT

2/ 2

A-12 ACCIDENT HISTORY

ACFT NBR	DATE	PILOT FATE	CAUSE
123	5-24-64	Ejected Safely	Plugged Pilot Static Tube Mal- function
133	7-9-64	Ejected Safely	F'It Cont. Sur-

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ACFT NBR	DATE	PILOT FATE	CAUSE
126	12-28-65	Ejected Safely	GROUND CREW- Human Error
125	1-5-67	Fatal	Fuel Guage Malfunction

I/ DETACHMENT I, 1129th BEGAN TRAINING AS A UNIT COINCIDENT WITH DELIVERY OF FIRST AIRCRAFT (TRAINER) IN JANUARY 1963. PRIOR TO THAT IT HAD BEEN SUPPORTING LAC FLIGHT TEST EFFORT.

2/ ONE FLIGHT TEST AIRCRAFT (#122) "MOTHBALLED" AT PALMDALE. CALIF. - 16 SEPT 67

OXCART SENSORS

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SYSTEMVI

WIDE BAND CRYSTAL VIDEO ELINT RECEIVER AND RECORDER.

MANUFACTURER - THOMPSON - RAMO - WOOLDRIDGE (TRW SYSTEMS, INC.)

NUMBER OF SYSTEMS IN INVENTORY (3)

WEIGHT - APPROX. 70 LBS.

FREQUENCY COVERAGE - 5 BANDS

50 TO 600 MHz, 600 TO IGHz

I GHz TO 2 GHz to 4GHz

4 GHz TO 8 GHz AND TIME CODE GENERATOR

BANDWIDTH - 30 KHz

SENSITIVITY - (-45 dbm)

CAPABILITY - PROVIDES CONTINUOUS ANALOG RECORDING WINTHIN THE ABOVE MENTIONED FREQUENCY BANDS.

BLUEDOG

MISSILE GUIDANCE JAMMER - RECEIVES, STORES AND RETRANSMITS SA-2 "L" BAND MISSILE GUIDANCE COMMANDS WHICH PROVIDE FALSE COMMANDS TO THE MISSILE DURING THE TERMINAL PORTION OF THE INTERCEPT.

MANUFACTURER - ELECTRONIC DEFENSE LABS (SYLVANIA)

NUMBER OF SYSTEMS IN INVENTORY (7)

WEIGHT - APPROX. 480 LBS. (INCLUDES CHINE BOX)

CAPABILITY - CAN PROVIDE FALSE COMMANDS TO (27) MISSILE SIMULTANEOUSLY

PEAK POWER OUTPUT - 20,000 WATTS

PIN PEG

THREAT WARNING SYSTEM - DETECTS PRESENCE OF FAN SONG RADAR TRACKING THE AIRCRAFT AND PROVIDES LIGHT INDICATION TO PILOT AND AUTOMATIC JAMMER TURN ON.

MANUFACTURER - WESTINGHOUSE

NUMBER OF SYSTEMS IN INVENTORY - (8)

WEIGHT - APPROX. 30 LBS.

FREQUENCY RANGE - 2.8 GHz to 3.2 GHz

4.8 GHz to 5.2 GHz

<u>DISCRIMINATION</u> - SORTS PRF, SCAN RATE, PULSE WIDTH, FREQUENCY

<u>SENSITIVITY</u> - (-40 dbm)

BIG BLAST

BARRAGE NOISE JAMMER- PROVIDES WIDE BAND NOISE JAMMING TO DENY RANGE INFORMATION TO FAN SONG TRACKING RADAR. THIS SYSTEM IS TURNED ON AUTOMATICALLY BY EITHER PIN PEG OR BLUE DOG.

MANUFACTURER - APPLIED TECHNOLOGY, INC.

NUMBER OF SYSTEMS IN INVENTORY - (6)

WEIGHT - APPROX 400 LBS (INCLUDES CHINE BOX AND PIN PEG)

FREQUENCY RANGE - 2.8 GHz to 3.2 GHz

4.8 GHz. to 5.2 GHz

TYPICAL BANDWIDTH (FLAT TO WITHIN I db) 200 MHz EACH BAND

AVERAGE (AND PEAK) POWER OUTPUT - "S" BAND-200 WATTS

> "C" BAND 400 WATTS

TYPE - I - CAMERA

PANORAMIC STERO, (2) CAMERAS IMAGING ON A SINGLE FILM ON A STABILIZED PLATFORM.

MANUFACTURER - PERKIN-ELMER

NUMBER OF SYSTEMS IN INVENTORY - (5)

WEIGHT - 690 LBS. INCLUDES FILM MOUNTING BRACKETS

FILM - I ROLL, 6.6" x 5000' - TYPE 3404 THIN BASE UNPERFORATED

PICTURE FORMAT - 27.67" x 6.35" - SCALE AT 80,000' = 1/60,000

COVERAGE LINEAR - 2,500 N.M.

COVERAGE LATERAL - 4.8 x ALTITUDE (63 N. M. at 80,000' ABSOLUTE)

LENS - 18" - +3.8 refractor

EXPOSURE - 1/50 TO 1/600 PREPROGRAMMED

RESOLUTION - I FOOT, HIGH CONTRAST, 200 LINES/MM

TYPE'-'IV'-'CAMERA

FRAMING CAMERA WITH A LATERAL INDEXING MIRROR HEAD, SINGLE 48" LENS IMAGING ON AN 18" x 18" FORMAT, SIMULTANEOUSLY ON 2 ROLLS OF FILM, 1/2 ON EACH ROLL.

MANUFACTURER - HYCON

NUMBER OF SYSTEMS IN INVENTORY - (3)

WEIGHT - 892 LBS. - INCLUDES FILM

FILM - 2 ROLLS, 9.5" x 6000', thin base type 3,400 UNPERFORATED

<u>PICTURE FORMAT</u> - 18" x 18", SCALE AT 80,000' - 1/20,000

COVERAGE LINEAR - 8 MODES, 50 MIN to 71 MIN, 1.860 N.M.

COVERAGE LATERAL - 29.04 N.M.

LENS - 48" + 5.6 REFRACTOR

EXPOSURE - I/60 TO I/I000 COCKPIT CONTROLLED "FAST" OR "SLOW"

1/25 1/60

1/250 1/25

1/500 1/250

1/1000 1/500

14 NOV 72

OXCART AVIONICS:

- 1. The original EWS configuration of OXCART consisted of PIN PEG, passive warning system, BLUE DOG, active guidance jammer, and either MAD MOTH, deceptive jammer, or BIG BLAST, noise jammer.
- 2. As the BLUE DOG, and possible BIG BLAST, systems are no longer available in inventory, initial configuration of the A-12 would consist of PIN PEG and System 13C Mod D, which is a modified and improved MAD MOTH. Later configurations might include the EW systems available for the SR-71.
- 3. As BLUE DOG would no longer be used by the A-12, there would be sufficient space and weight capability to install System 17 L/W.