TO 1F-15A-1



USAF SERIES F-15A/B/C/D AIRCRAFT BLOCK 7 AND UP

McDonnell Aircraft

F33657-70-C-0300 F33657-87-C-2027 F09603-87-D-0554

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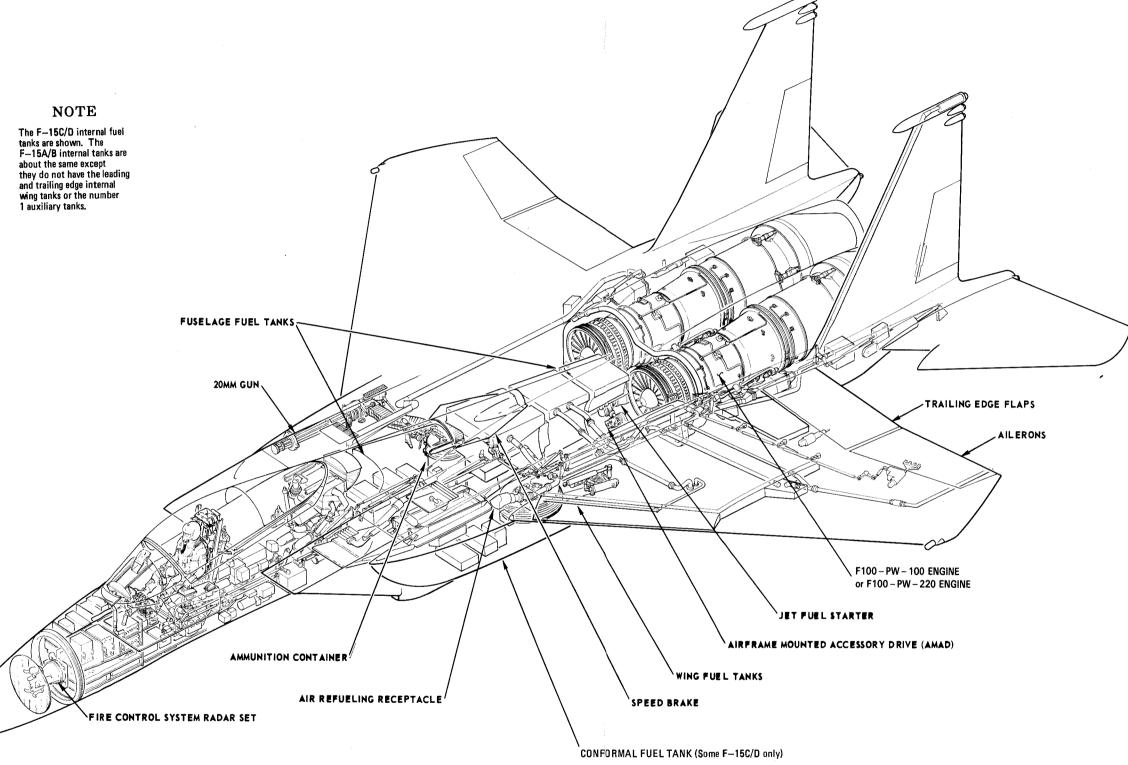
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Published under authority of the Secretary of the Air Force.

15A-1-(10)F

GENERAL ARRANGEMENT

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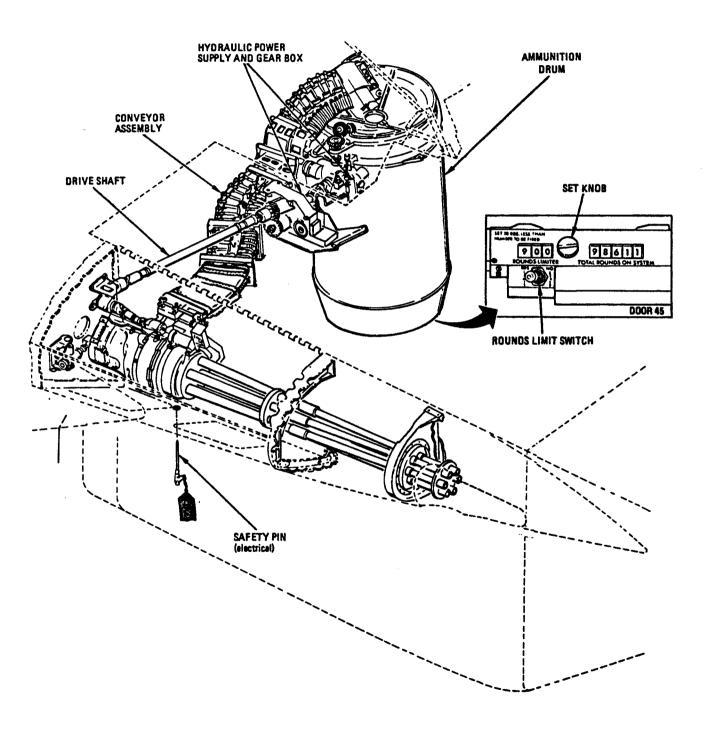


15A-1-(9)E

GENERAL ARRANGEMENT

Figure FO-1

M61A1 GUN SYSTEM



15C-34-1-1-(11)A

Figure 1-52

ENGINE LIMITATIONS

GROUND

CONDITION	FTIT °C	RPM %	OIL PSI	REMARKS			
START	680	_	_	NOTE 5			
IDLE	-	-	15-80	NOTE 5			
MILITARY/AB	960	94	- 30-80	NOTES 2, 5, 6, 8, & 9			
TRANSIENT	970	94	30-80	NOTES 2, 5, 8, & 10			
FLUCTUATION	±10	±1	±10	NOTES 2, 3, 4, & 6			

FLIGHT

CONDITION	FTIT °C	RPM %	OIL PSI	REMARKS			
AIRSTART	800		••				
IDLE	-	-	15-80				
MILITARY/AB	970	96	30-80	NOTES 1, 2, & 7			
TRANSIENT	990	96	30-80	NOTES 2, & 11			
FLUCTUATION	±10	±1	±10	NOTES 2, 3, 4, & 6			

NOTES

- 1. USE OF THE Vmax SWITCH IS PROHIBITED.
- 2. LIMITATIONS INCLUDE FLUCTUATIONS.
- 3. IN PHASE FLUCTUATION OF MORE THAN ONE INSTRUMENT, OR SHORT TERM CYCLIC FLUCTUATIONS ACCOMPANIED BY THRUST SURGES, INDICATE ENGINE CONTROL PROBLEMS.
- NOZZLE FLUCTUATIONS ARE LIMITED TO ±2% AT MILITARY POWER AND ABOVE. FLUCTUATIONS ARE NOT PERMITTED BELOW MILTARY POWER.
- ANY OIL PRESSURE FROM 0 TO 100 (PEGGED) PSI IS ACCEPTABLE DUR-ING START AND INITIAL OPERATION FOR A PERIOD NOT EXCEEDING 1 MINUTE AFTER REACHING IDLE.
- 6. OIL PRESSURE FLUCTUATIONS OF \pm 10 PSI ARE ACCEPTABLE.
- 7. AT LESS THAN 0 G, OIL PRESSURE MAY DROP AS LOW AS 0 PSI.
- 8. FOR ENGINE OPERATION AT MILITARY OR ABOVE, OIL PRESSURE MUST INCREASE 15 PSI MINIMUM ABOVE IDLE OIL PRESSURE.
- 9. ENGINE NOZZLE POSITION IS LIMITED TO 30% OPEN OR LESS AT MILITARY POWER.
- 10. MAXIMUM TEMPERATURE LIMITED TO 30 SECONDS.
- 11. MAXIMUM TEMPERATURE LIMITED TO 10 SECONDS.

15A-1-(119)75

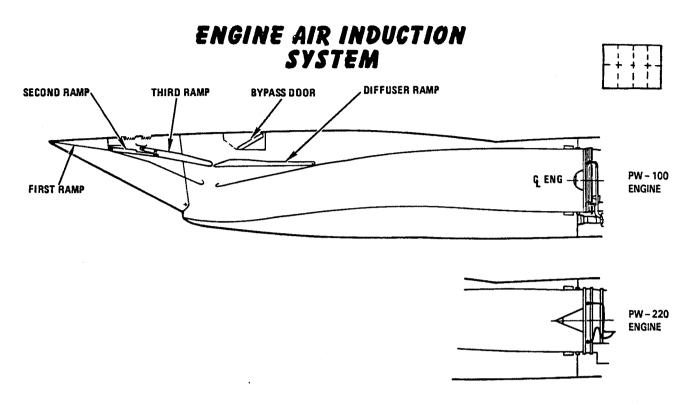


Figure 1-1

15A-1-(120)B

EMERG

Removes electrical power from the ramp and bypass door actuators, causing them to move hydraulically to the emergency (ramps locked up and bypass door closed) positions. If hydraulic pressure fails, air loads will force the ramps and bypass door to the emergency position.

ENGINE OIL SYSTEM

Each engine is equipped with a completely self-contained oil system. Oil is supplied to the main pump element by gravity feed. Refer to Servicing Diagram, this section, for oil specifications.

ENGINE FUEL SYSTEM

Refer to foldout section for airplane and engine fuel system illustration.

ENGINE CONTROL SYSTEM

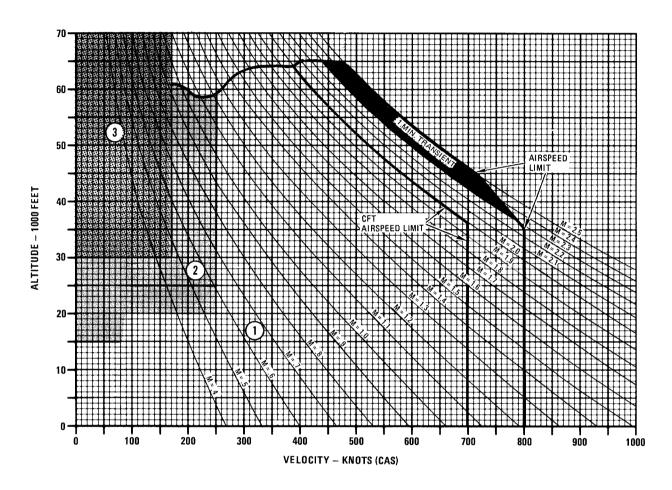
The F100-PW-100 engine control consists primarily of a hydromechanical unified control (UC) for main engine and afterburner operation with a supervisory engine electronic control (EEC). The F100-PW-220 engine control consists primarily of a hydromechanical main fuel control (MFC), afterburner fuel control (AFC) and a full authority digital electronic engine control (DEEC).

Unified Control (F100-PW-100)

The unified control (UC) performs the following functions: provides engine speed control, schedules rear compressor variable vanes, initiates engine and afterburner fuel flow, controls the exhaust nozzles, and provides a positive fuel cutoff at engine shutdown. The unified control is scheduled mechanically from IDLE to MIL but is scheduled by the engine electronic control at MIL and above.

AIRSPEED LIMITATION AND AFTERBURNER OPERATING ENVELOPE

F100-PW-100 ENGINE



NOTES

- REGION 1 UNLIMITED AFTERBURNER OPERATION. FAILURE TO LIGHT, RUMBLE (LIGHT VIBRATIONS), AFTERBURNER INDUCED FAN STALL, AND BLOWOUTS SHOULD NOT OCCUR.
- REGION 2 AFTERBURNER FAILURE TO LIGHT, RUMBLE (LIGHT VIBRATIONS), AFTERBURNER INDUCED FAN STALL, OR BLOWOUTS MAY OCCUR DURING RAPID TRAN—SIENTS FROM LOW POWER SETTINGS BUT SHOULD NOT OCCUR DURING STEADY.STATE AFTERBURNER OPERATION, TRANSIENTS FROM MILITARY OR DURING MODULATION WITHIN AFTERBURNER.
- REGION 3 AFTERBURNER FAILURE TO LIGHT, RUMBLE (LIGHT VIBRATIONS), AFTERBURNER INDUCED FAN STALL, AND BLOWOUTS ARE PROBABLE DURING TRANSIENTS FROM ALL POWER SETTINGS AS WELL AS DURING STEADY—STATE OPERATION.

SUSTAINED LEVEL TURNSGROSS WEIGHT-35,000 POUNDS

MAXIMUM THRUST

REMARKS

ENGINE(S): (2) F100-PW-100, ENGINE TRIM 97.7%, U.S. STANDARD DAY, 1966 GUIDE

DATÉ: 1 OCTOBER 1985 DATA BASIS: FLIGHT TEST

AIRPLANE CONFIGURATION

F-15A/C CLEAN

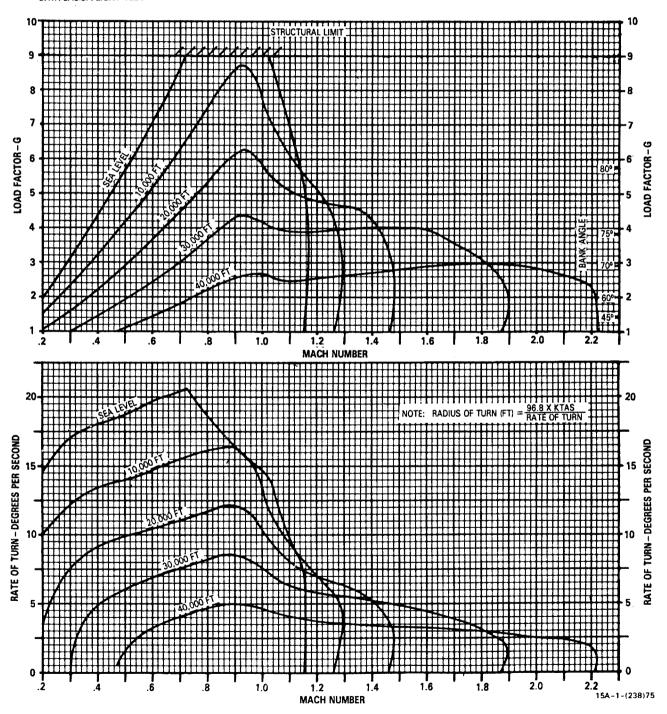
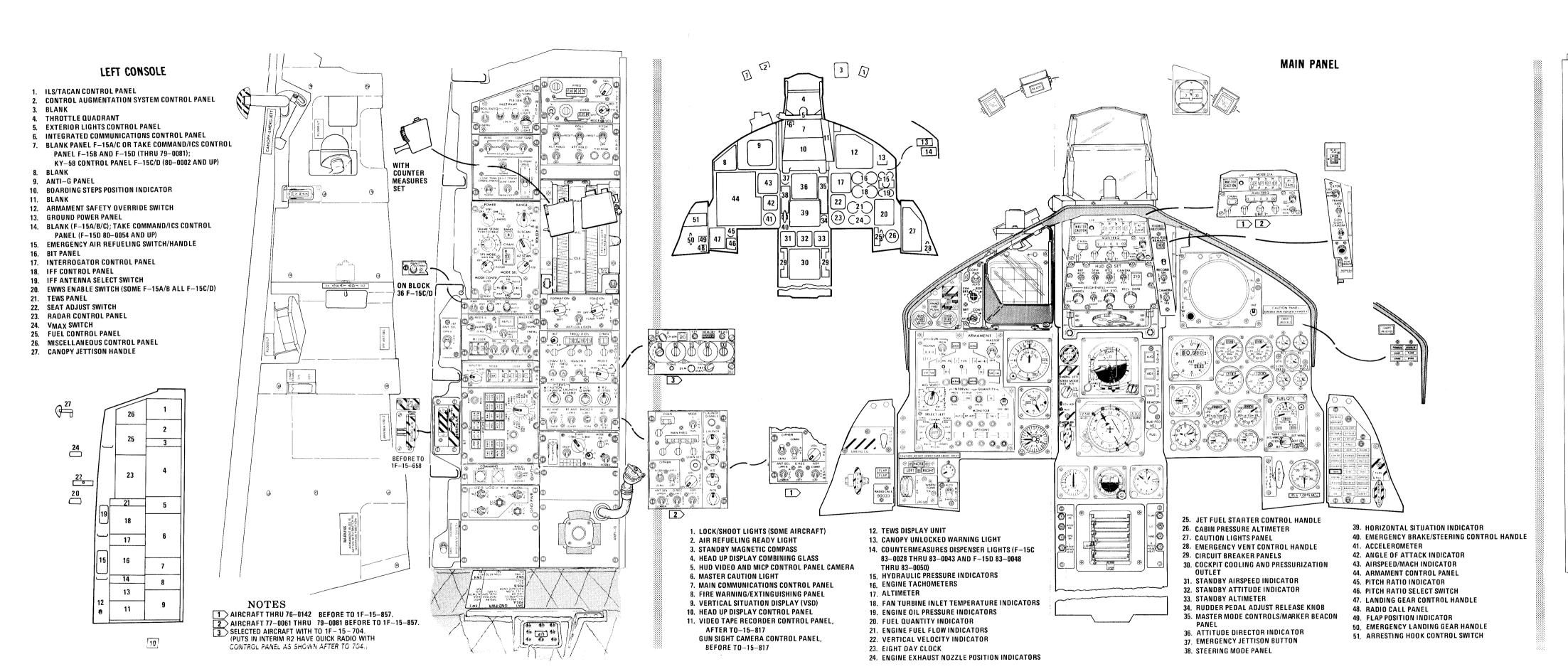


Figure A9-39

SUSTAINED LEVEL TURNS **GROSS WEIGHT - 37,000 POUNDS** GUIDE AIRPLANE CONFIGURATION REMARKS F-15C CLEAN ENGINE(S): (2) F100-PW-220 U.S. STANDARD DAY, 1966 DATE: 15 JUNE 1989 DATA BASIS: FLIGHT TEST LOAD FACTOR - G **MACH NUMBER** RATE OF TURN - DEGREES PER SECOND RADIUS OF TURN (FT)= 2.0 **MACH NUMBER** 15A-1-(307-1)75-CATI

Figure B9-28



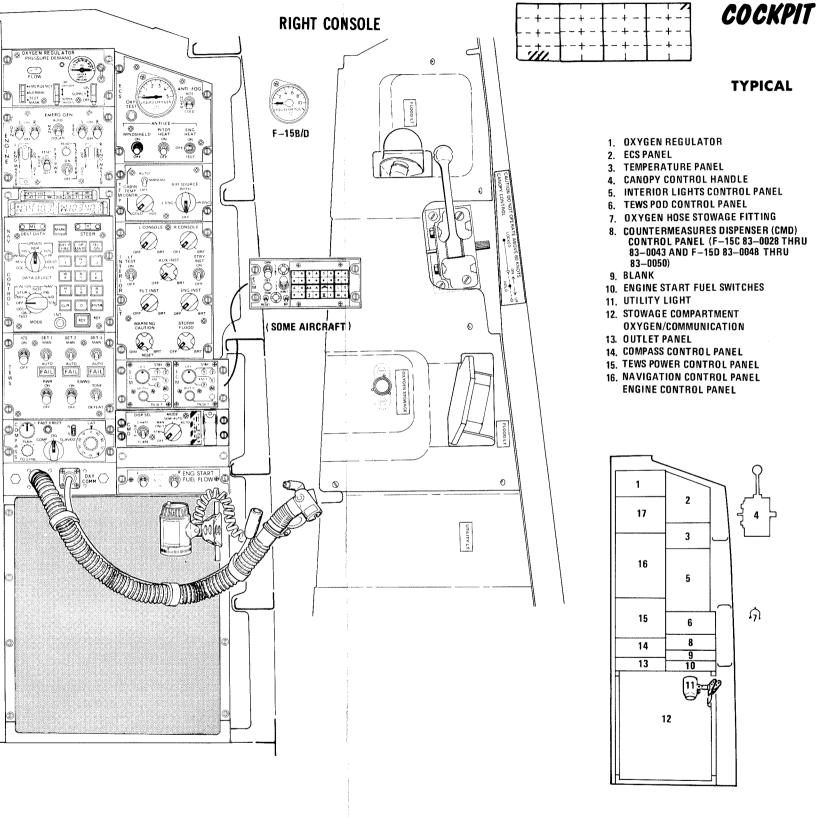
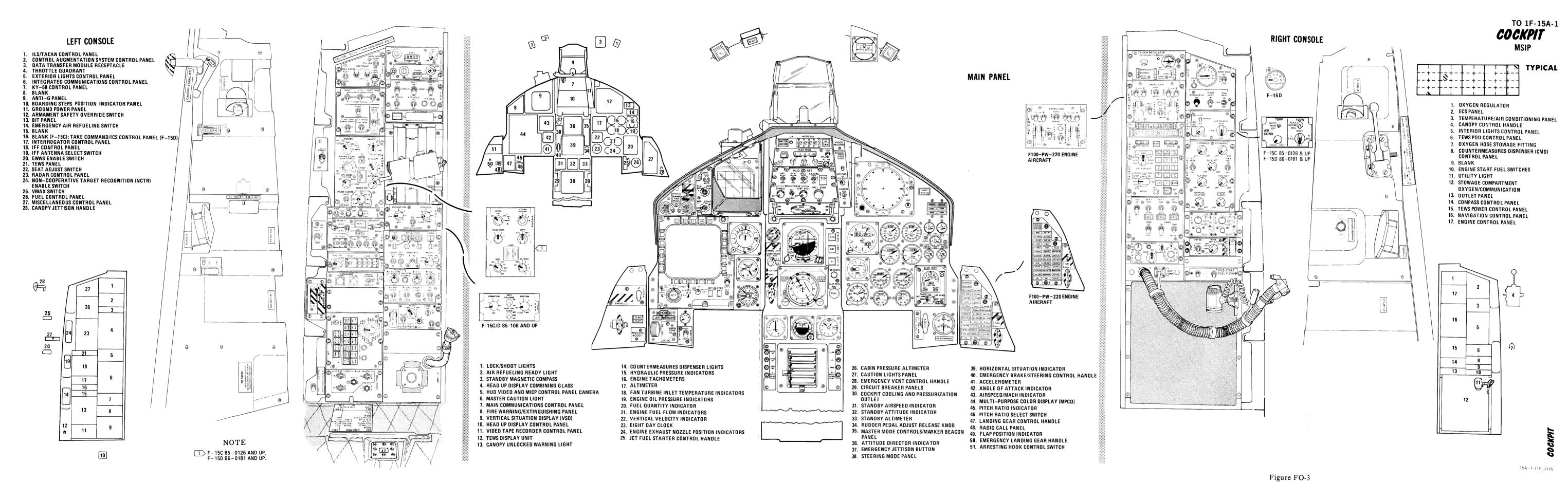


Figure FO-2



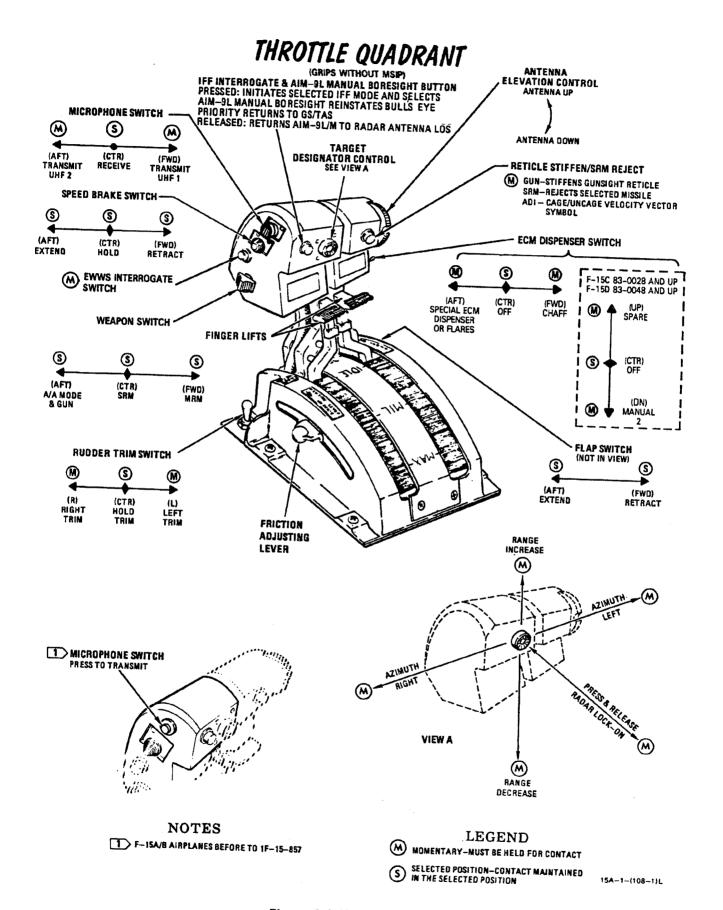
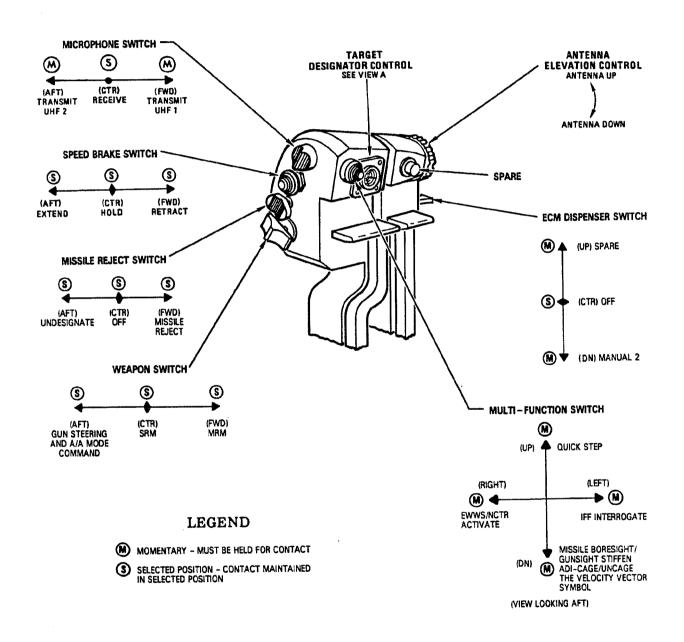


Figure 1-2 (Sheet 1 of 2)

THROTTLE QUADRANT

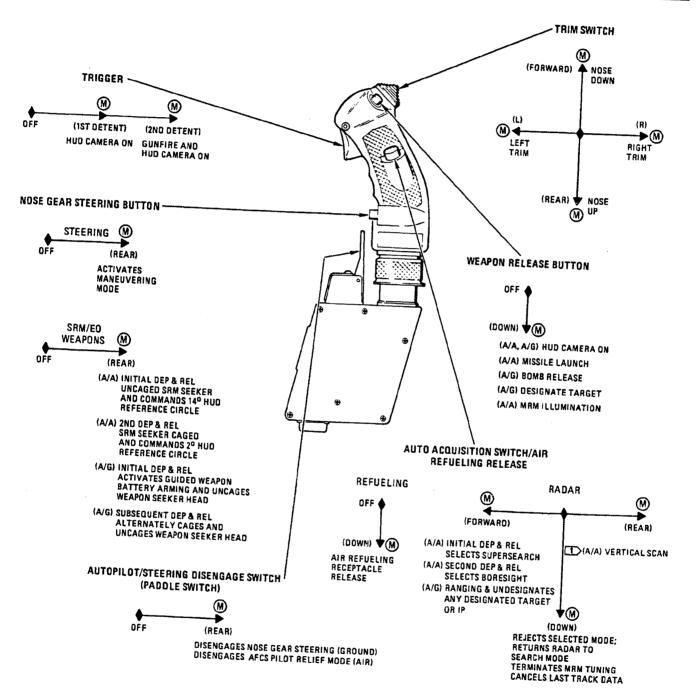
(GRIPS WITH MSIP)



15A - 1 - (108 - 2)75

CONTROL STICK





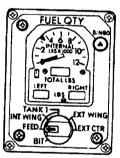
LEGEND

M MOMENTARY - MUST BE HELD FOR CONTACT

FUEL QUANTITIES

(F-15A/B)

		USABLE FUEL								
TANK			JA)-4	I JP-8	JP-5				
		GALLONS	POUNDS AT 6.5 LB/GAL	POUNDS AT 6.3 LB/GAL	POUNDS AT 6.7 LB/GAL	POUNDS AT 6.8 LB/GAL				
TANK 1	D	508	3300 ± 100	3200 + 100	3400 ± 100	3450 ± 100				
RIGHT ENG FEED TANK		234	1500 ± 108	1500 ± 100	1550 ± 100	1590 + 100				
LEFT ENG FEED TANK		184	1200 ± 100	1150 ± 100	1250 ± 100	1250±100				
INTERNAL WING TANKS	L	422	2750 ± 200	2650 ± 200	2800 ± 200	2870 ± 200				
	R	422	2750 ± 200	2650 ± 200	2800 ± 200	2870 ± 200				
TOTAL INTERNAL FUEL		1770	11,500 ± 450	11,150 ± 450	11,850 ± 450	12,040 ± 450				
EXTERNAL WING TANKS	L	610	3950 <u>+</u> 250	3840 <u>+</u> 250	4090 + 250	4150 ± 250				
TANKS	R	610	3950 <u>+</u> 250	3840 <u>+</u> 250	4090 ± 250	4150 ± 250				
INTERNAL FUEL PLUS EXTERNAL WING TANKS		2990	19,400 <u>+</u> 600	18,830 <u>+</u> 600	20,030 ± 600	20,330 ± 600				
EXTERNAL & TANK		610	3950 ± 250	3840 ± 250	4090 ± 250	4150 ± 250				
INTERNAL FUEL PLUS EXTERNAL & TANK		2380	15,450 <u>+</u> 500	14,990 <u>+</u> 500	15,940 <u>+</u> 500	16,180 ± 500				
MAXIMUM FUEL LOAD TOTAL INTERNAL PLUS ALL EXTERNAL TANKS		3600	23,350 ± 650	22,670 <u>+</u> 650	24,120 ± 650	24,480 ± 650				



ON AIRCRAFT THRU 73-107 SUBTRACT APPROXIMATELY 200 POUNDS FROM THE VALUES FOR TANK 1.

NOTES

THE FUEL QUANTITIES, IN POUNDS, ARE ROUNDED OFF TO READABLE VALUES OF COUNTER PORTION OF THE FUEL QUANTITY INDICATOR; THEREFORE, THE ACTUAL GALLONS TIME 6.5, 6.3, 6.7 OR 6.8 WILL NOT NECESSARILY AGREE WATH THE POUNDS COULINN WITH THE POUNDS COLUMN.

FUEL WEIGHTS ARE BASED ON JP-5 AT 6.8, JP-8 AT 6.7 AND JP-4 AT 6.5 AND 6.3 POUNDS PER GALLON (DIFFERENCES ARE DUE TO MANUFACTURERS ALLOWABLE TOLERANCES) AND 65 DEGREES F

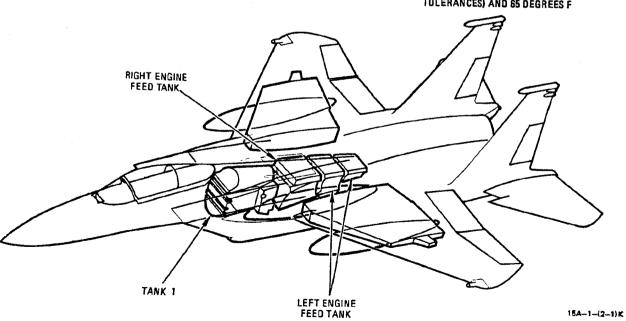


Figure 1-4 (Sheet 1 of 2)

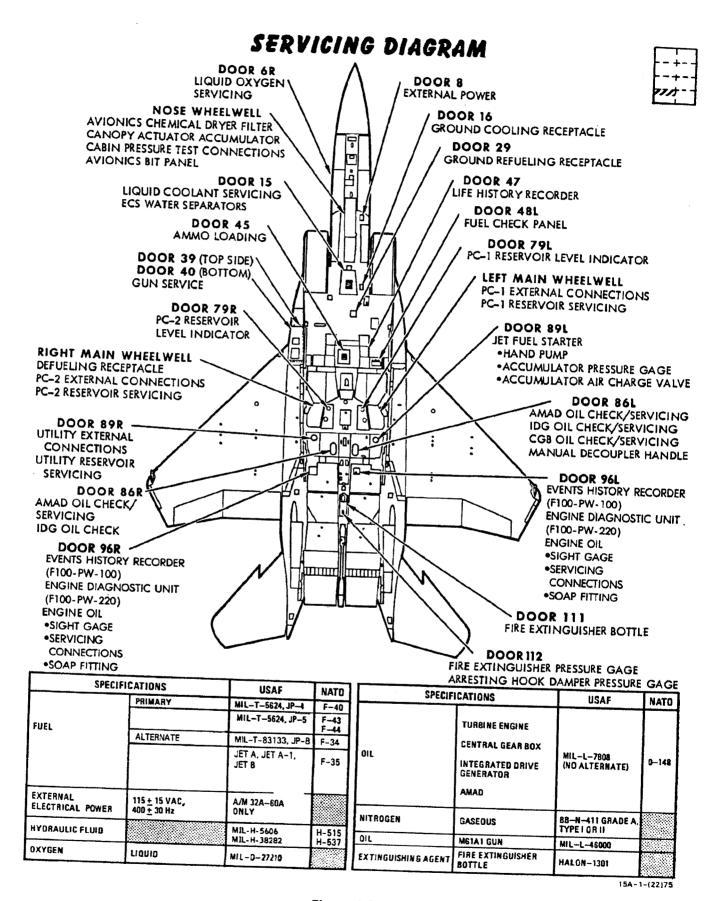
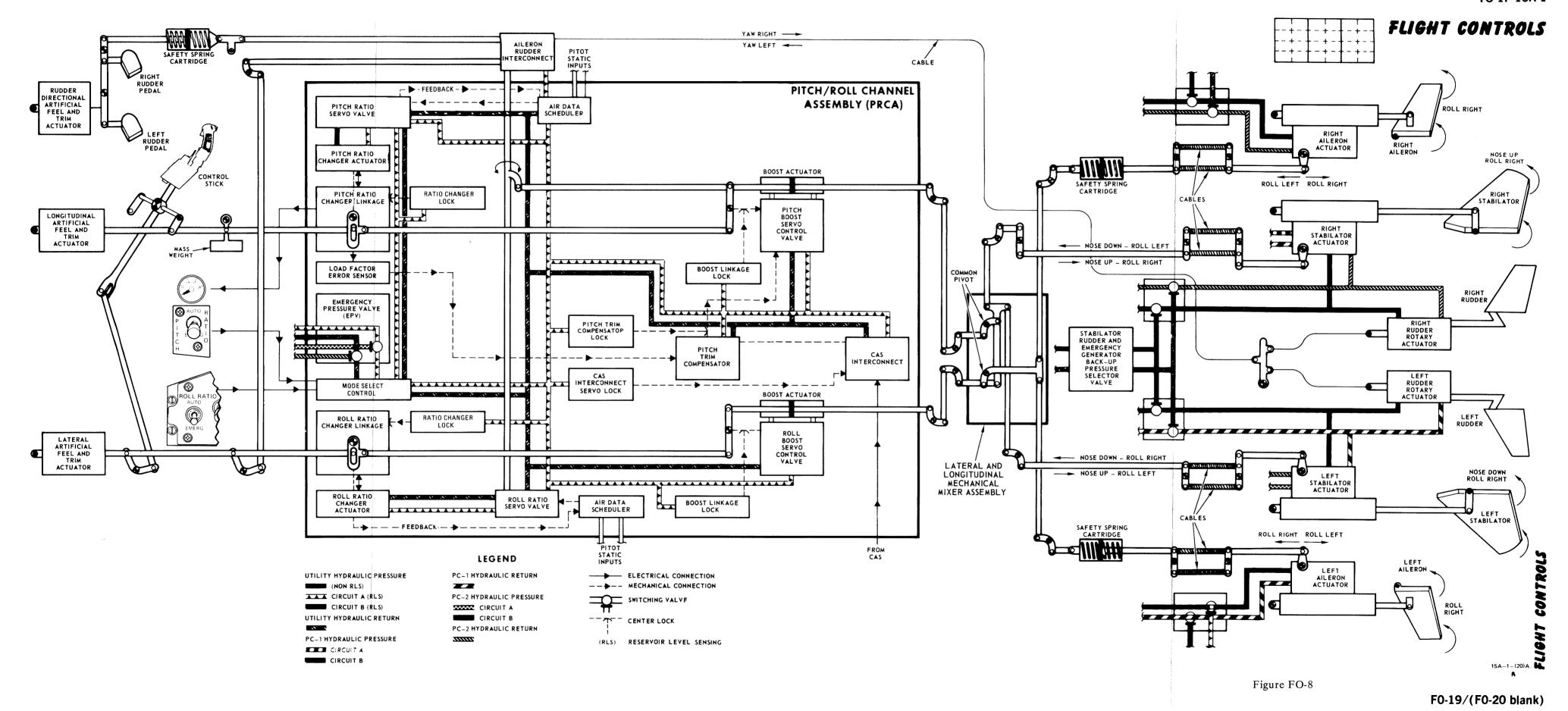


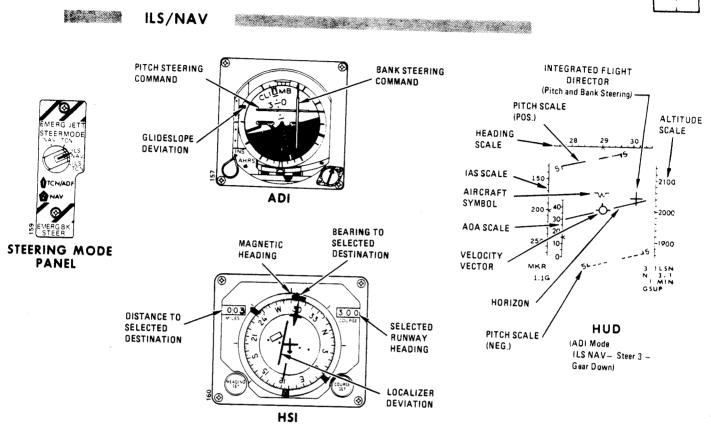
Figure 1-22



TO 1F-15A-1

ILS/NAV AND ILS/TACAN MODE DISPLAYS





ILS/TACAN

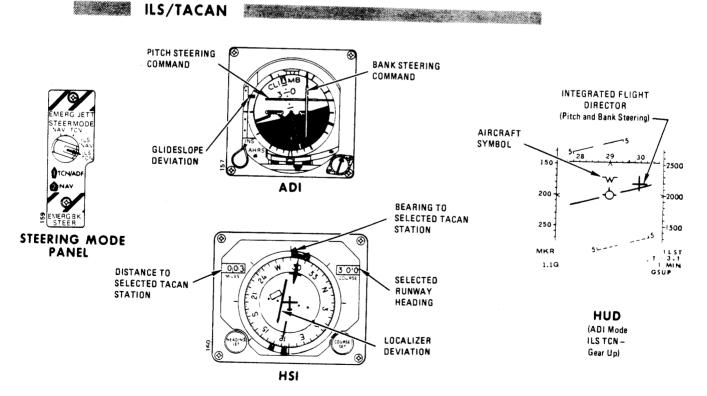


Figure 1-18

MULTI-PURPOSE COLOR DISPLAY (MPCD) CONTROL PANEL

(MENU DISPLAY SELECTED)

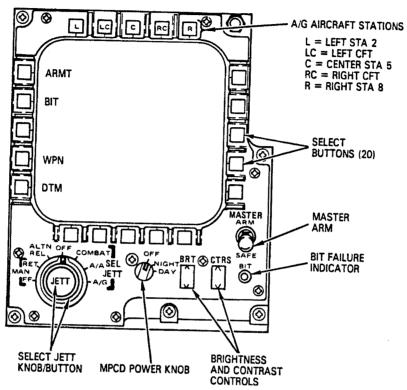


Figure 1-15

the unit is lost, if there is a loss of synchro signal to the pitch or roll servo, if there exists an excessive servo error, or if the ADI is receiving an invalid signal.

HORIZONTAL SITUATION INDICATOR (HSI)

The HSI (figure 1-16) provides a horizontal or plan view of the aircraft with respect to the navigation situation. The aircraft symbol in the center of the HSI is the airplane superimposed on a compass rose. The compass card rotates so that the aircraft heading is always under the top of the lubber line. Index marks are provided every 45° around the perimeter of the compass card. Four modes of navigational operation are displayed on the HSI. These modes are selected by the steering mode knob (see figure 1-17).

Steering Mode Panel

The steering mode panel is on the main instrument panel, adjacent to the ADI. The panel contains a steering mode knob which selects the source of information or mode to be displayed on the HSI, ADI, and HUD (with ADI master mode selected) as shown in figures 1-17 and 1-18.

15A-1-(232)

NAV Selects navigation computer mode.

TCN Selects tacan mode.

ILS/NAV Selects ILS with navigation infor-

mation displayed.

ILS/TCN Selects ILS with tacan informa-

tion displayed.

OVERLOAD WARNING SYSTEM SEVERITY CODE DISPLAY

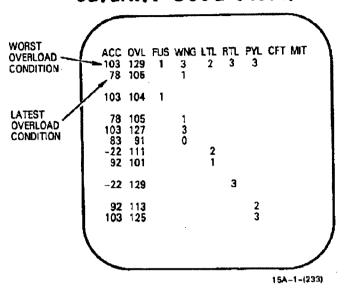


Figure 1-11

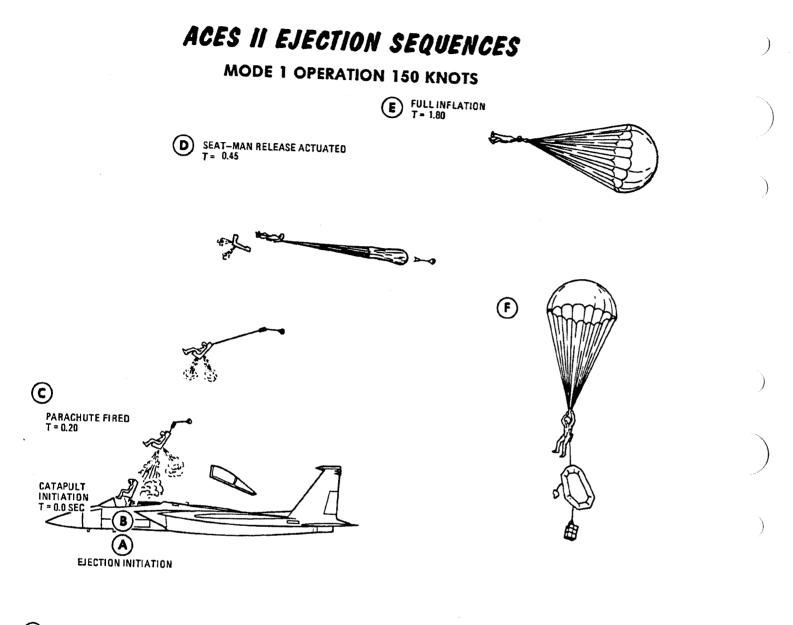
- ACC- Normal acceleration load factor. This is a two or three digit number with a decimal before the last digit understood (e.g., 92 is read as 9.2g).
 - OVL Percentage of overload expressed as a whole percentage. The percent overload is related to the component severity code as follows:

$\% { m OVL}$	SEVERITY CODE LEVEL
0% - 100%	0
101% - 110%	1
111% - 120%	2
121% - 130%	3
131% - 140%	4
141% and above	5

- a. FUS Fuselage
- b. WNG Wing
- c. LTL Left tail
- d. RTL Right tail
- e. PYL Pylon
- f. CFT Conformal fuel tanks
- g. MIT Mass items

The first line of the display shows the worst (highest) overload condition recorded during the flight. The second line is the latest overload condition encountered. Subsequent lines display overload percentages and severity codes for the listed components. This information is used to determine the required maintenance action. An overload value of exactly 100 will cause a 0 to be displayed, but a value of 100 plus .01 will cause the percent overload value to increase to 101 and cause a 1 to be displayed. All applicable inspections are based on severity codes and not percent overload, which is displayed for information only.

Moving the DATA SELECT knot out of CCC or the DEST DATA out of M2 will return the normal display to the VSD. Stored entries equal to or less than 100% are automatically removed from the CC when the NCI mode switch is moved from ALIGN to NAV. Overloads over 100% latch indicator 72 on the avionics status panel (ASP) and can only be cleared



- B ROCKET CATAPULT FIRES, SEAT MOVES UP RAILS AND:

 RECOVERY SEQUENCER POWER SUPPLY ENERGIZED.

 COMMUNICATIONS AND SHIPS OXYGEN LINES DIS-COMMONICATIONS AND SHIPS OXYGEN LINES CONNECT.

 EMERGENCY OXYGEN IS TRIPPED.

 RECOVERY SEQUENCER SWITCH TRIPPED BY STRIKER PLATE.

 STAPAC PITCH CONTROL SYSTEM INITIATED.

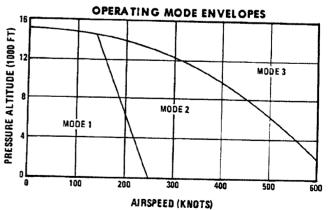
- PARACHUTE DEPLOYMENT MORTAR FIRES AS SEAT CLEARS AIRCRAFT.
- RECOVERY SEQUENCER INITIATES HARNESS
 RELEASE ACTUATOR AND:
 A. LAP BELT AND SHOULDER HARNESS STRAPS
 RELEASE FROM SEAT STRUCTURE.
 B. PILOT IS SEPARATED FROM SEAT.
 C. RADIO BEACON INITIATED (IF AUTO SELECTED).
- (E) PARACHUTE FULLY INFLATED
- F SURVIVAL KIT DEPLOYED (PROVIDED AUTO SELECTED ON DEPLOYMENT SELECTOR

15A-1-(134-1)C

EJECTION SEQUENCES MODE 2 OPERATION 600 KNOTS FULL INFLATION T = 2.90 **(**D) **DROGE SEVERED** (F) PARACHUTE FIRED T=1.17 DROGUE INFLATED T = 0.41 DROGUE FIRED CATAPULT (A)**EJECTION INITIATION**

NOTE

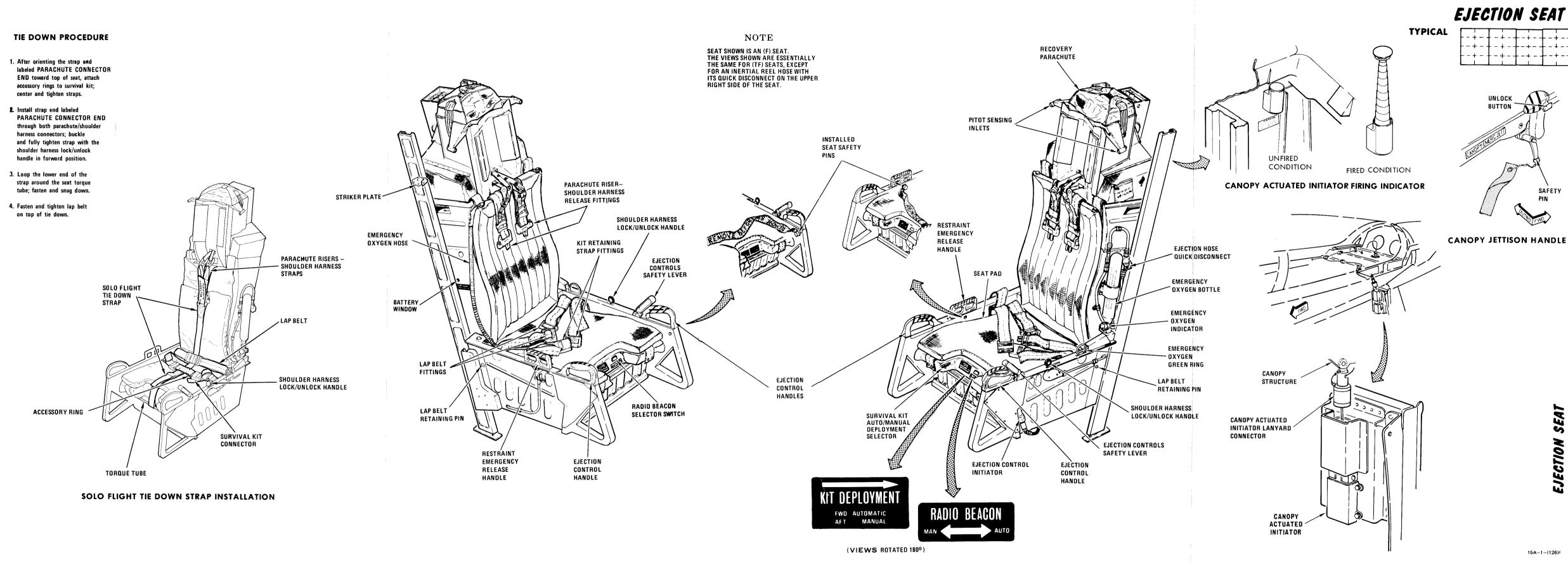
- TIMES INDICATED ARE AFTER CATAPULT FIRING. TO DETERMINE TOTAL TIME, A TIME FACTOR FOR THE PERIOD BETWEEN EJECTION HANDLE INITIATION AND CATAPULT FIRING MUST BE ADDED TO THE FIGURES SHOWN. THIS TIME INTERVAL REPRESENTS ESSENTIALLY THE TIME IT TAKES TO REMOVE THE CANOPY AFTER THE EJECTION HANDLE IS PULLED, AND IS APPROXIMATELY 0.3 SECONDS AT ZERO AIRSPEED AND BECOMES SLIGHTLY LESS AS AIRSPEED INCREASES. THERE IS AN ADDITIONAL DELAY OF 0.4 SECONDS BETWEEN REAR AND FRONT SEAT FIRING IN F-15B/D.
- IN MODE 3, WHICH IS DESIGNED FOR HIGH ALTITUDE CONDITIONS, THE DROGUE IS DEPLOYED AS IN MODE 2, BUT MAN—SEAT SEPARATION AND DEPLOYMENT OF THE PARACHUTE ARE DELAYED UNTIL THE PROPER ALTITUDE IS ENCOUNTEDED. IS ENCOUNTERED.



15A-1-(134-2)B

Figure 1-9 (Sheet 2)

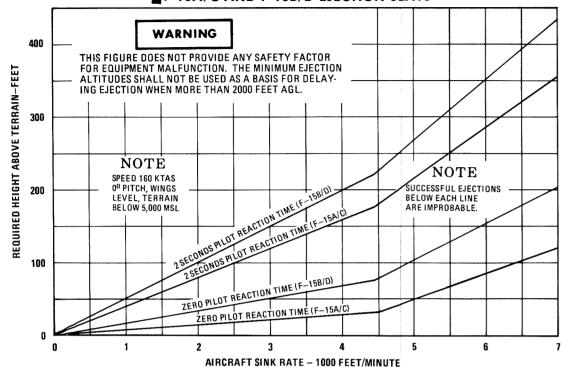
TO 1F-15A-1



FO-21/ (FO-22 blank)

Figure FO-9

MINIMUM EJECTION ALTITUDE VS. SINK RATE #F-15A/C AND F-15B/D EJECTION SEATS



MINIMUM EJECTION ALTITUDE FOR SELECTED FLIGHT CONDITIONS

FLIGHT CONDITIONS:	F-15A/C MINIMUM EJECTION ALT (FEET)	F-15B/D MINIMUM EJECTION ALT (FEET)		
ZERO SPEED, ZERO ALTITUDE — (CANOPY MUST BE CLOSED AND LOCKED OR COMPLETELY SEPARATED)	0	0		
120 KNOTS, 0° PITCH, 60° BANK (1)	0	0 (2		
600 KNOTS, 0° PITCH, 0° BANK	0	0		
150 KNOTS, 0° PITCH, 180° BANK	280	280		
150 KNOTS, 0° PITCH, 0° BANK, 10,000 FPM SINK RATE	240	360		
200 KNOTS, -60° PITCH, 0° BANK	600	810		
450 KNOTS, -30° PITCH, 0° BANK	570	880		
200 KNOTS, -60° PITCH, 60° BANK	650	860 📵		
250 KNOTS, ·45º PITCH, 180º BANK	780	1000		

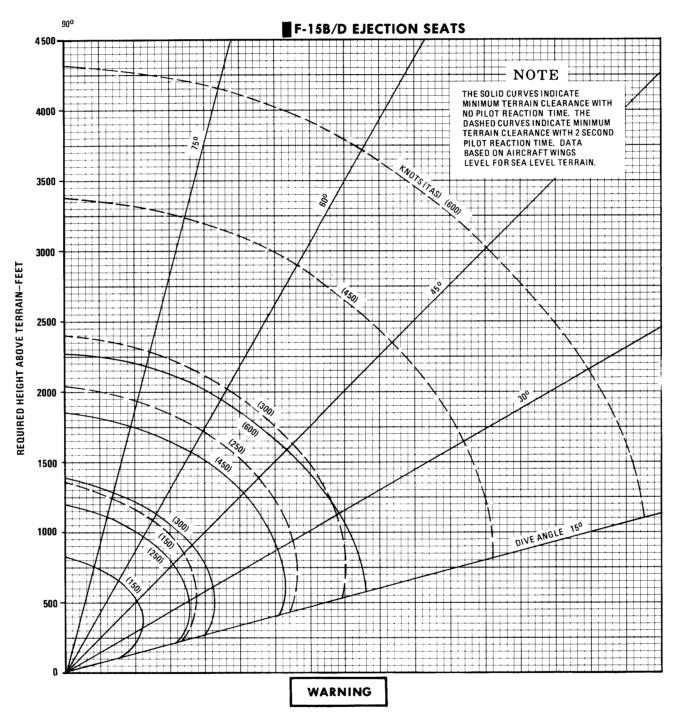
- 1 FOR THIS CASE, IMPACT OCCURS AT THE INSTANT OF SEAT/AIRCRAFT SEPARATION. IN ALL OTHER CASES, CONDITIONS ARE AT SYSTEM INITIATION.
- FOR THESE CASES, RECOVERY PERFORMANCE IS BASED ON THE MOST CRITICAL (FRONT SEAT) ROLL/SEAT TRAJECTORY COMBINATION.

WARNING

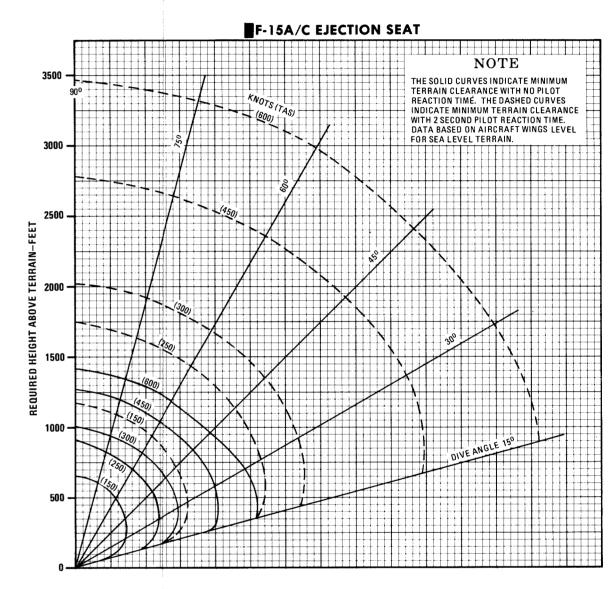
THE FIGURE DOES NOT PROVIDE ANY SAFETY FACTOR FOR EQUIPMENT WALFUNCTION OR PILOT REACTION TIME. THE ABOVE MINIMUM EJECTION ALTITUDES SHALL NOT BE USED AS THE BASIS FOR DELAYING EJECTION MORE THAN 2000 FEET AGL.

EJECTION SEAT PERFORMANCE CHARTS

MINIMUM EJECTION ALTITUDE VS. AIRSPEED AND DIVE ANGLE



THE FIGURE DOES NOT PROVIDE ANY SAFETY FACTOR FOR EQUIPMENT MALFUNCTION. THE ABOVE MINIMUM EJECTION ALTITUDES SHALL NOT BE USED AS THE BASIS FOR DELAYING EJECTION WHEN MORE THAN 2000 FEET AGL.



WARNING

THE FIGURE DOES NOT PROVIDE ANY SAFETY FACTOR FOR EQUIPMENT MALFUNCTION. THE ABOVE MINIMUM EJECTION ALTITUDES SHALL NOT BE USED AS THE BASIS FOR DELAYING EJECTION WHEN MORE THAN 2000 FEET AGL.

15A-1-(132)B

Figure FO-10

FO-23/ (FO-24 blank)

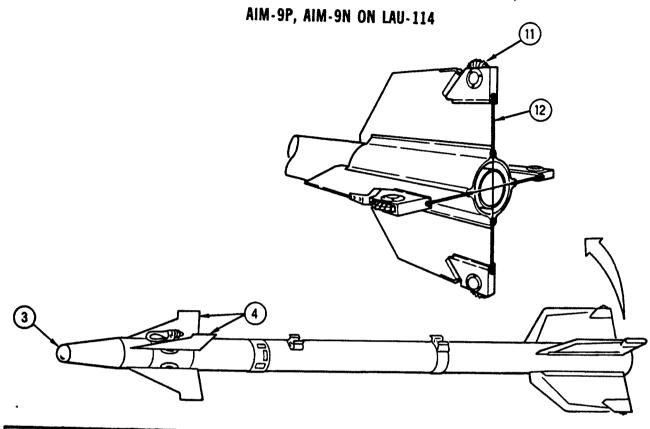
EXTERNAL STORES LIMITATIONS WITHOUT CFT

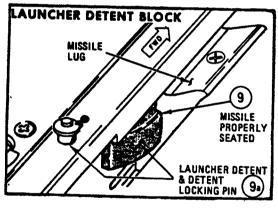
WEIGHTS	INCLUDE
SUSPENSION	EQUIPMENT

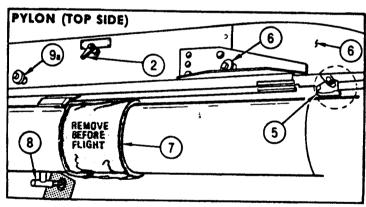
NA - NOT APPLICABLE NE - NOT ESTABLISHED BAL - BASIC AIRCRAFT LIMITS

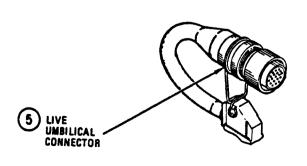
				- 1		- 1											BAL – BASIC AIRCRAFT LIMITS
	MAXIMUM KCAS OR IMN STATION LOADING WHICHEVER IS LESS							ACCELERATION-G			MAX	STORES CONFIGURATION WEIGHT LBS	,				
	STORE	NUMBER			SUSPEN			AGE)Y-	NOS	CAR	RIAGE	- ۸۲	NOS	DIVE	TORE GUR/ GHT	REMARKS
		LINE	1	2	5	8	9	CARRIAGE	EMPLOY-	JETTISON	SYM	UNSYM	EMPLOY.	JETTISON	DEL	CONF	·
	AIM -9P AIM -9P-1			测度		運搬		BAL	BAL	600 2.3	BAL	BAL	-0.5 to	+0.5 to	NA	1686 (6)	① Combined carriage between line numbers 1, 2, & 3 is prohibited.
l	Missiles	,		①②		00				<u>(5)</u>		:	+7.33	+2.0			2 Adapters without launchers authorized if covers installed.
				③④		30								٥			(3) USAF approved dacron cord fix to prevent rolleron uncaging is mandatory on AIM-9P series missiles.
ŀ	AIM-9P-2	\dashv														1726	Wings without rollerons, guide vanes dampers, and cager assemblies may be used on the CATM-9L/M training missile
	AIM-9P-4 Missiles															6	if all four wings have these parts removed.
		2															(B) Jettison limit is for pylon jettison only.
1																	(6) Subtract 690 pounds from stores configuration weight and 6.6 from total drag index if other inboard pylon mounted stores
	AIM-9L CATM-9L/M-1				NOTE.		<u> </u>]]	ha sassia	d saith a						1786 (6)	are loaded.
	CATM-9L/M-2 AIM-9M	3			NUTE:	AIM-9 si combinati	ou joaqiut suna misi	ines may Jon stati	ons 2, 5,	& 8.	•7 1						
	Missiles																
	AIM - 7F			MISS	ILE STA	TIONS		BAL	150	1.0	BAL	BAL	-0.5	+0.5	NA	2040	(7) Carriage of dummy training missile prohibited
	AIM-7M Missiles			3	4	6	7	0	TO 800	8			to +7.33	to +3.0			8 Jettison between 250-350 knots, 1g, when tanks or AG weapons
			FWD	×			×		2.3					8			on stations 2 & 8.
			AFT				ļ										CAUTION
		7					<u> </u>										 With tanks or AG weapons on stations 2 or 8 employment of aft AIM-7 missiles is prohibited within the following parameters:
					NOTE:	AIM-7 s combinati	eries mis: on loadin	siles may g on stati	be carrie ions 2, 5,	d with a , & 8	ny						a. At or below 1g. b. At or below 2g below 18,000 feet and above 465 knots.
																	 As aft missile will not be free of possible wing store interference until about 1 1/2 seconds after pressing the weapon release button.
	SUU - 60/A	F				 		BAL	NA	700	BAL	BAL	NA	+0.5	NA	296	
	C _L Pylon	5								1.4				to +2.0			
5A - 1 - (SUU-59/A Inboard Pylon	6				1		BAL	NA	1.0	BAL	BAL	NA	+ 0.5 to + 2.0	NA	690	
117-1)	SUU-60A SUU-59A	7		ı	1	1		BAL	NA	1.0	BAL	BAL	NA	+0.5 to	NA	986	

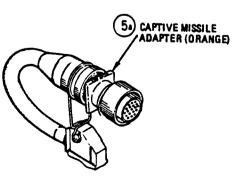
EXTERIOR INSPECTION (Continued)











15C-34-1-1-(162-2)31

TO 1F-15C-34-1-1

EXTERIOR INSPECTION (Continued) AIM-9L/M ON LAU-114 (13) ROLLERON LOCKED UNLOCKED TRAINING ADAPTER (ORANGE; BLACK WITH RED SHRINK TUBING AND BLUE CAPTIVE FLIGHT ADAPTER; OR BLACK WITH BLUE TRAINING CLAMP) YELLOW (8) GREEN COOL TANK PRESSURE GAGE LAUNCHER DETENT BLOCK FORWARD HANGER MK36 MOD 10 AND 11 10 LAUNCHER DETENT & DETENT LOCKING PIN PENDY BEFORE FLIGHT [11a]

10a MK36 MOD 8

AND 9

9

15C-34-1-1-(165-2)31

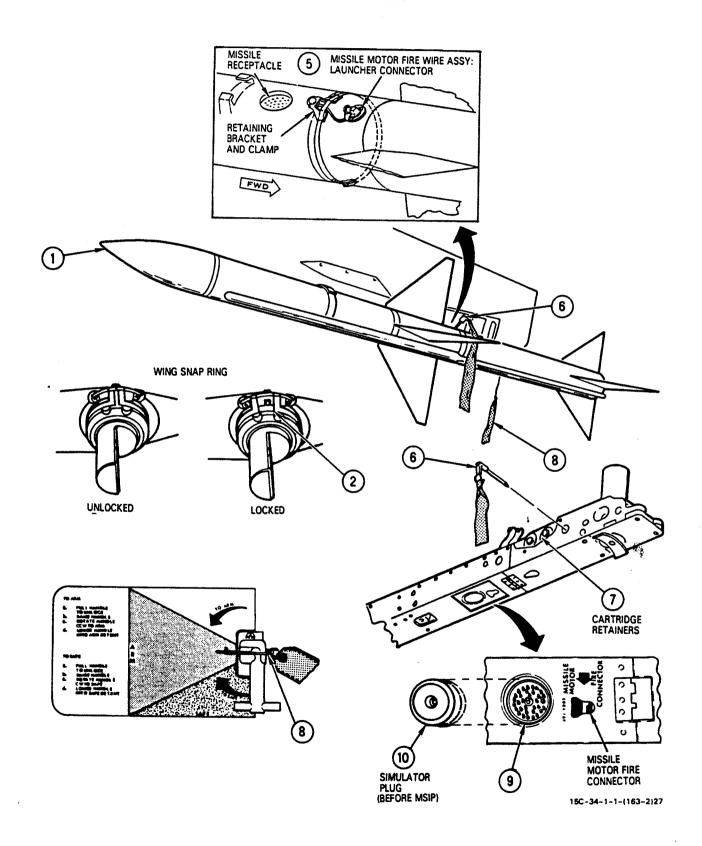
11

PROPERLY SEATED

2-16

EXTERIOR INSPECTION (Continued)

AIM-7 ON LAU-106

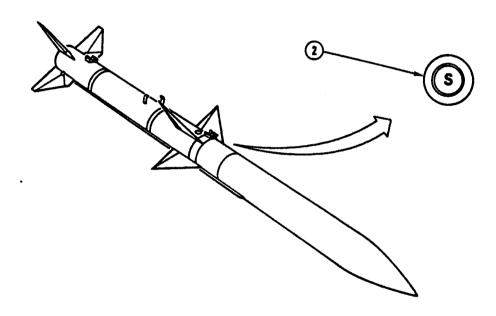


TO 1F-15C-34-1-1

EXTERIOR INSPECTION AIM-120 ON LAU-106A/A (MSIP)

- 1. Radome, wings, fins CLEAN AND UNDAMAGED
- 2. Propulsion arm/fire device S (Safe)
- 3. Rack safety pin INSTALLED
 4. Ejector cartridges INSTALLED
 5. Ejector feet POSITIONED

- 6. Forward ejector missile pad INSTALLED
- 7. Umbilical (buffer) connector INSTALLED, NO PINS SHOWING



15C-34-1-1-(210-1)31

STATION DIAGRAM A/A WEAPONS L INBD R INBO L OUTBO R OUTED AIM-120 STATIONS: 3, 4, 6, 7 OR 3C, 4C, 6C, 7C AND 2A, 2B, 8A, 8B AIM-7 STATIONS: 3, 4, 6, 7 OR 3C, 4C, 6C, 7C AIM-9 STATIONS: 2A, 2B, 8A, 8B **GUN STATION**

Figure 1-1

150-34-1-1-(3-1)30-CATI

1-4 Change 3

RADAR SET INSTALLATION

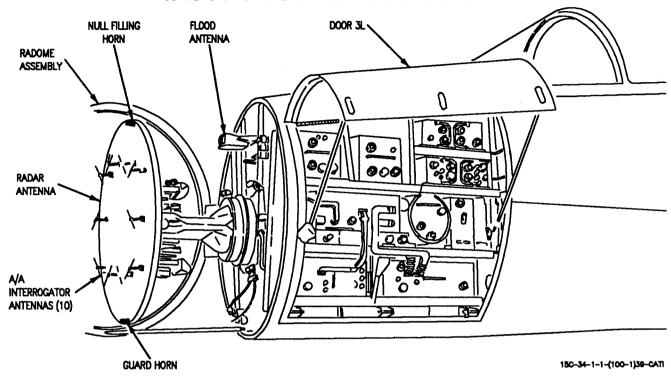
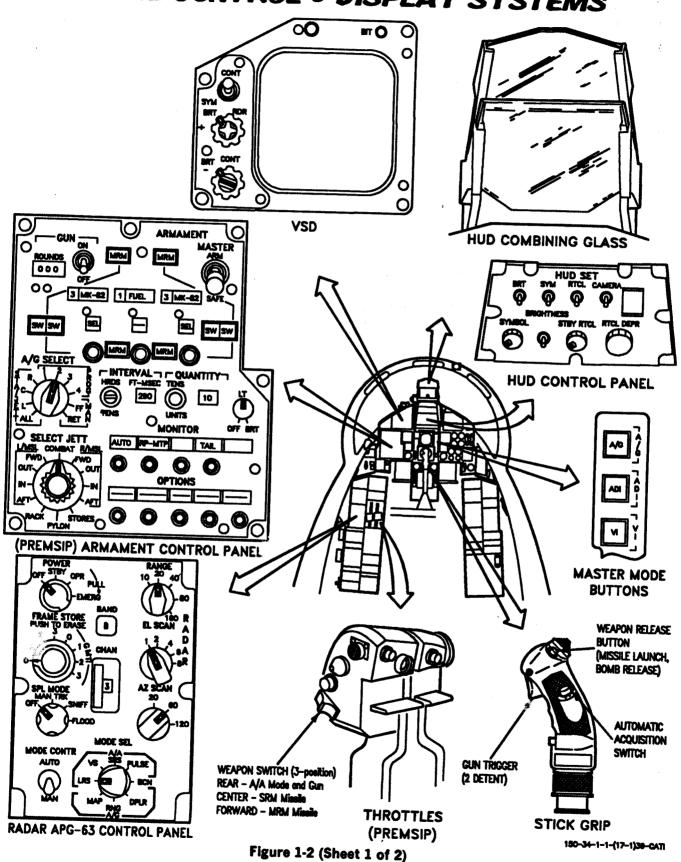


Figure 1-25

FIRE CONTROL & DISPLAY SYSTEMS



1-6 Change 3

LONG RANGE SEARCH

INTERLEAVED PRF

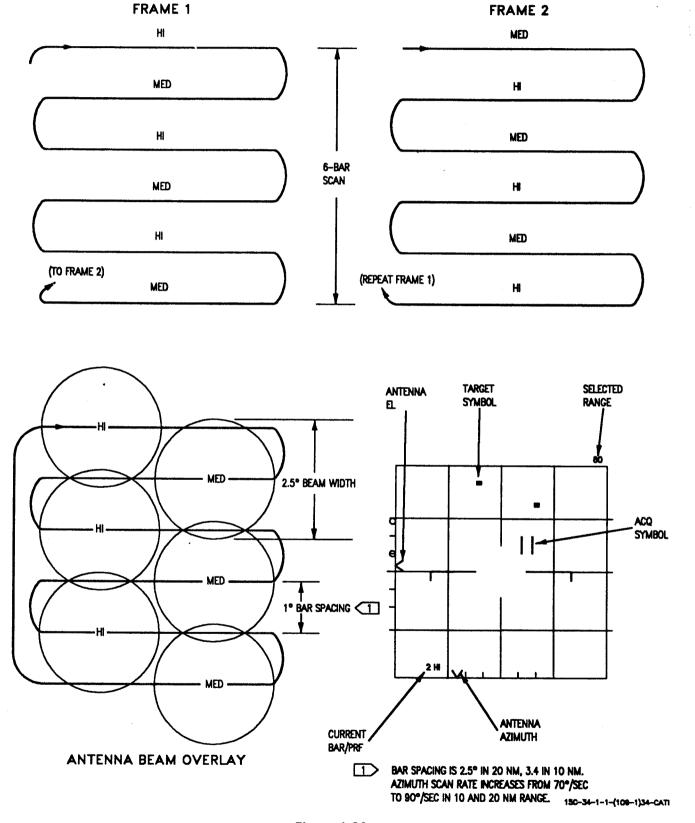


Figure 1-30

A/A INTERROGATOR CONTROLS

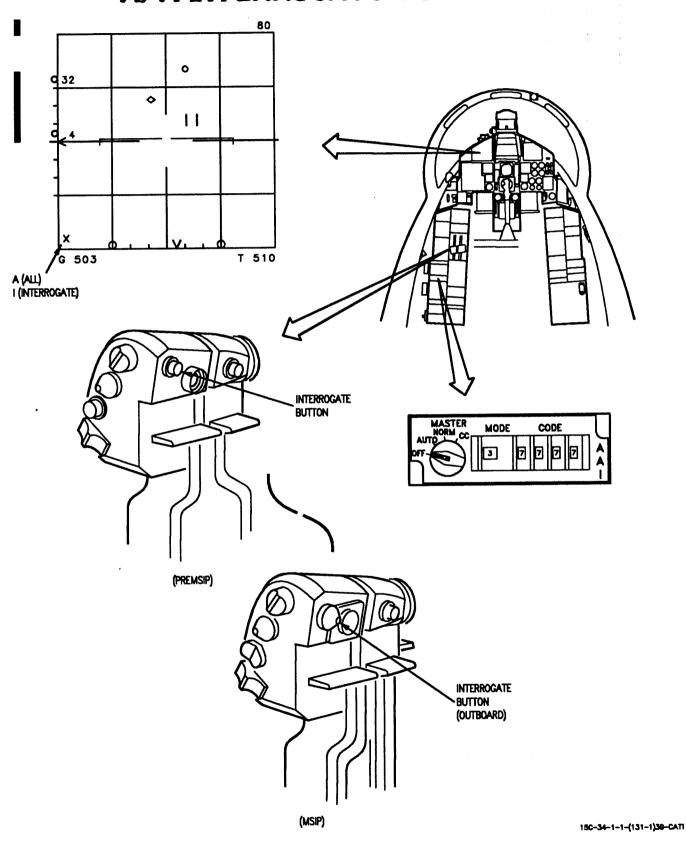
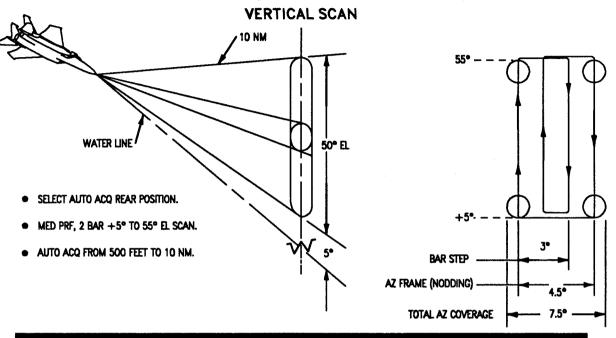


Figure 1-23

AUTO ACQ SCAN PATTERNS (Continued)



GUNS

- SELECT GUN MODE
- 6 BAR, 20° EL/60° AZ SCAN, MED PRF.
- SCAN CENTER AZ/EL CONTROLLED BY TDC.
- AUTO ACQ FROM 0.5 TO 10 NM.

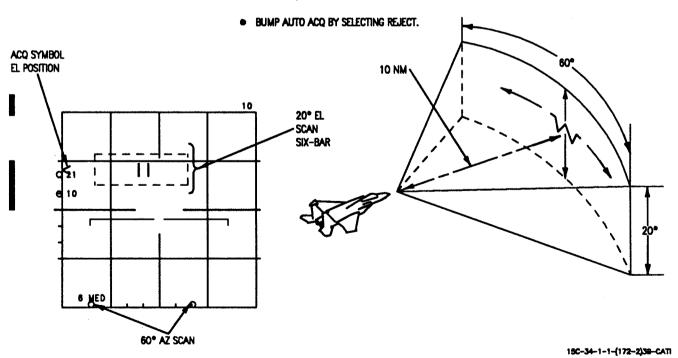


Figure 1-33 (Sheet 2)

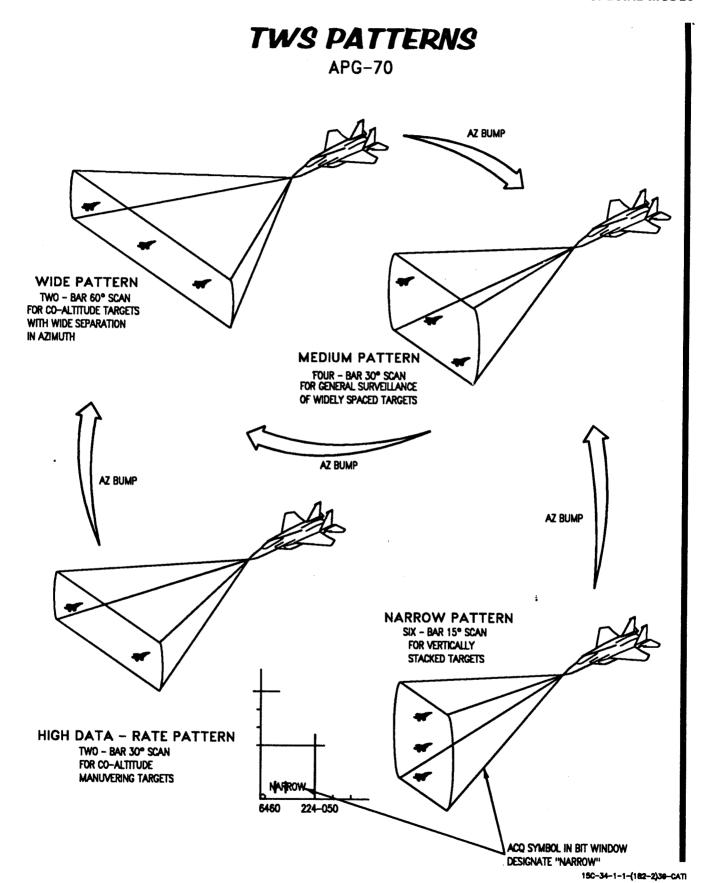
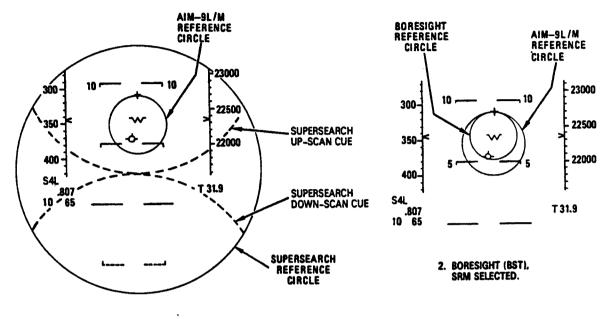


Figure 1-36 (Sheet 2)

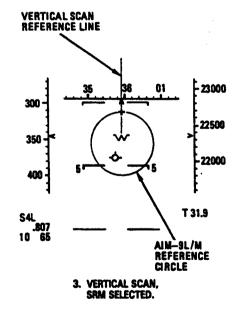
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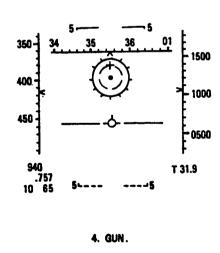
Change 3 1-98A

AUTO ACQ MODES, HUD DISPLAYS



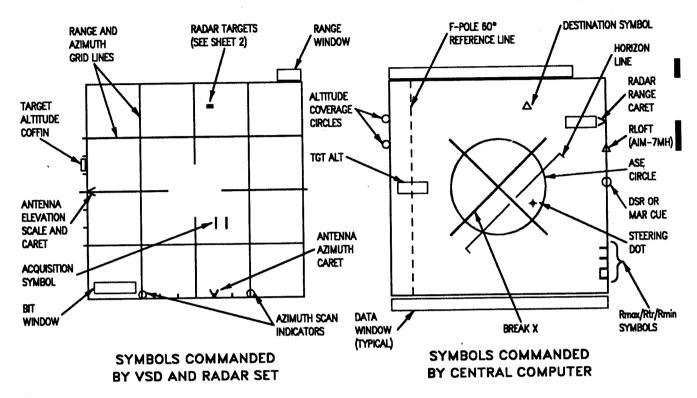
1. SUPERSEARCH (SS). SRM SELECTED.

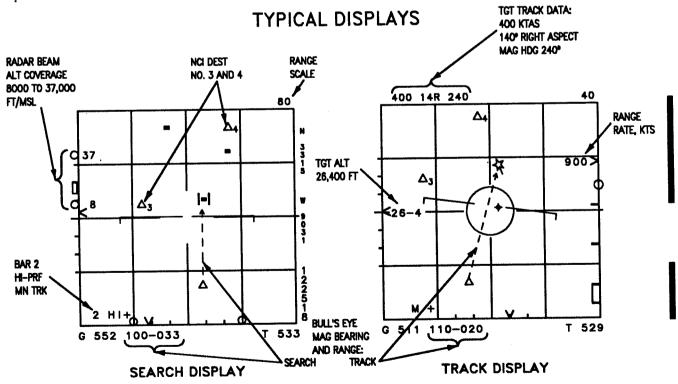




15C-34-1-1-(167)27

VSD SYMBOLS, A/A

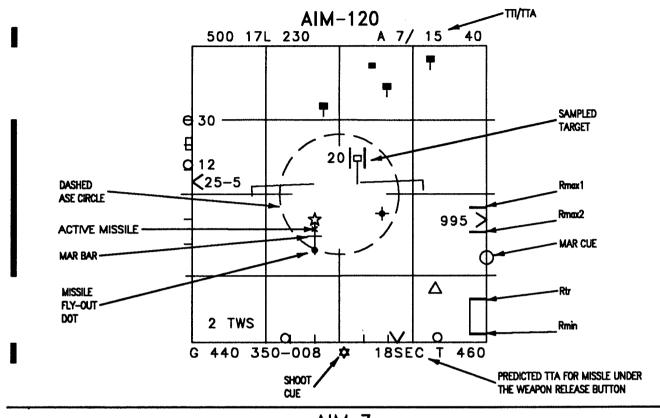




15C-34-1-1-(99-1)39-CATI

Figure 1-22 (Sheet 1 of 3)





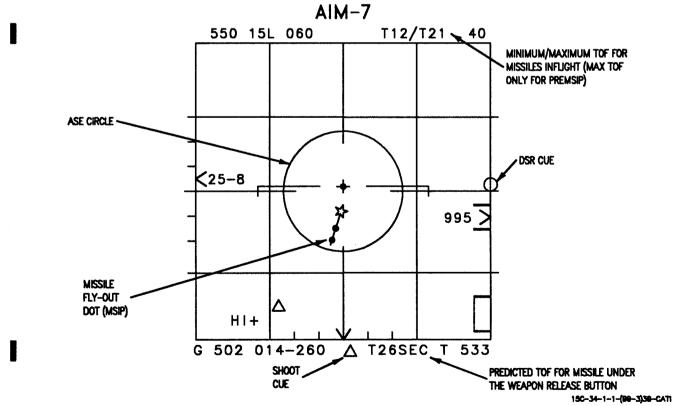


Figure 1-22 (Sheet 3)

Change 3 1-64G/(1-64H blank)

HUD SYMBOLS

ALL MODES

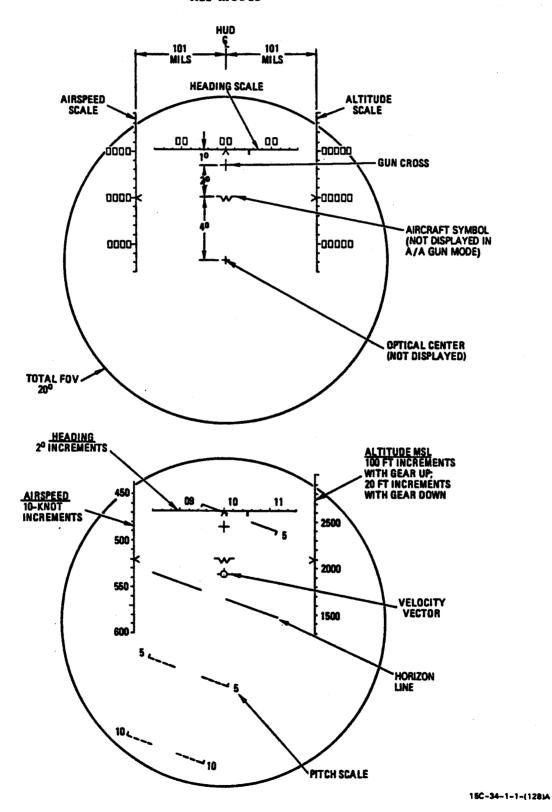
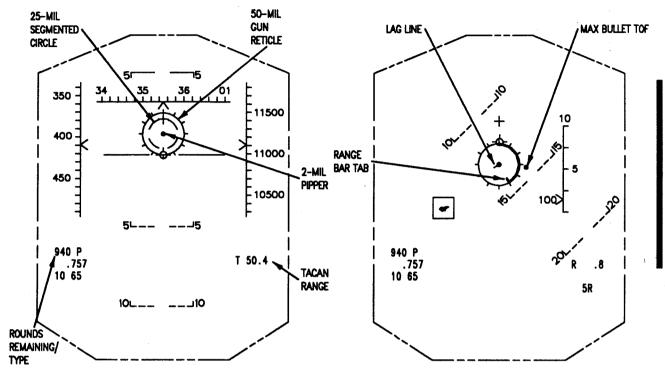


Figure 1-16

GUN STEERING



1. GUN MODE, RADAR SEARCH, SYMBOLS NORM



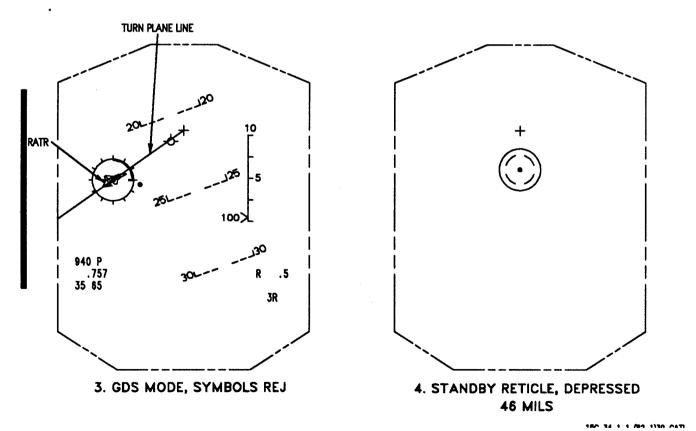


Figure 1-56

AIM-9P STEERING, HUD

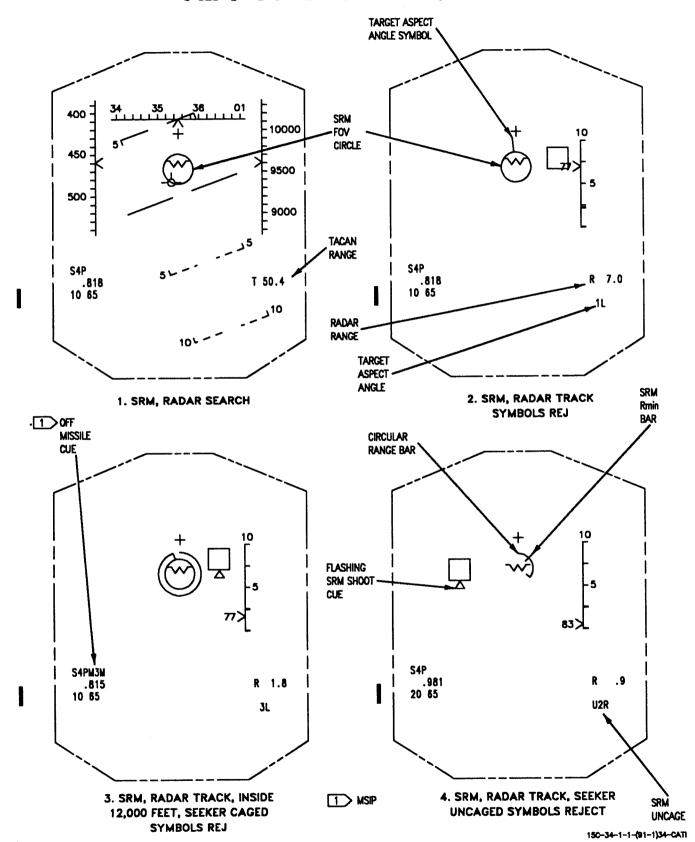
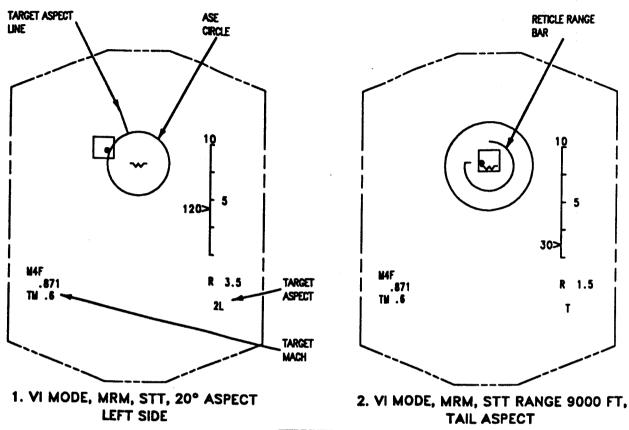
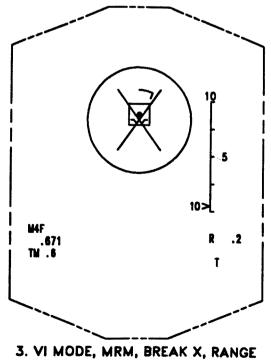


Figure 1-50

VI STEERING, HUD





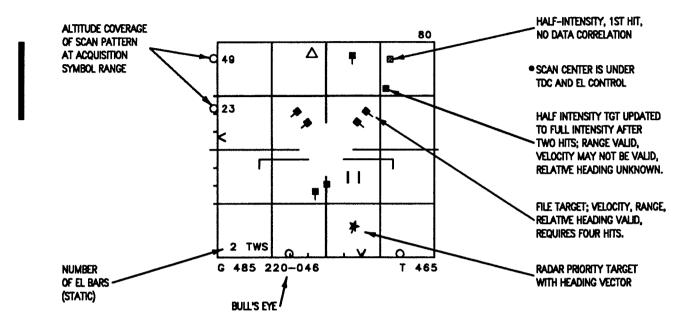
3. VI MODE, MRM, BREAK X, RANGE **INSIDE 1500 FEET**

15C-34-1-1-(84-1)34-CATI

Figure 1-18

TWS DISPLAY

NDTWS (ALL AIRCRAFT)



DTWS (AIM-7, PREMSIP)

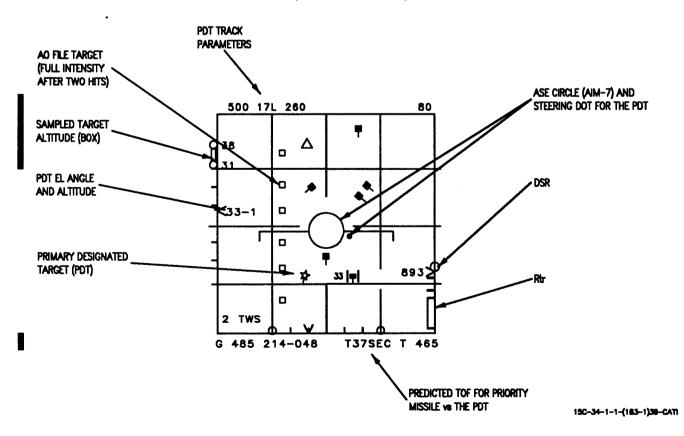
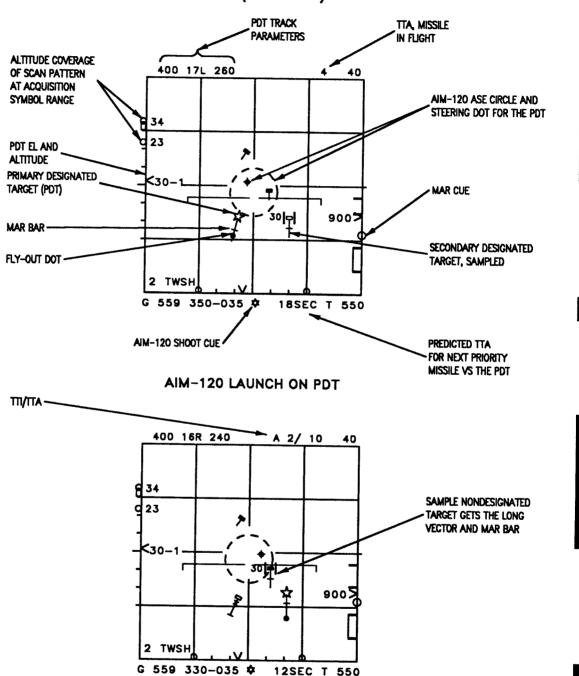


Figure 1-37 (Sheet 1 of 2)

TWS DISPLAY

DTWS (AIM-120)



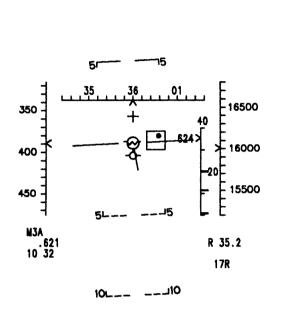
QUICK STEP PRIORITY, LAUNCH

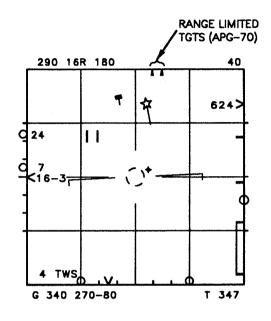
T

15C-34-1-1-(183-2)39-CATI

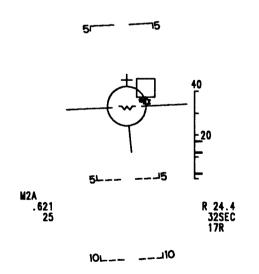
AIM-120 STEERING, HUD AND VSD

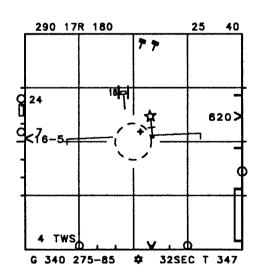
(MSIP)





1. MRM (AIM-120), DTWS, OUTSIDE RMAX 1





2. LAUNCH 1, MAR CUE, 25-SECOND TTA, SECONDARY TGT DESIGNATED

150-34-1-1-(209-1)39-CATI