



In-Flight Guide

388th Virtual Fighter Squadron

Current As Of (CAO):

2019-12-13

Version 1.0

COMPLEXITY (Uneven)





Authentication table: AET-100

								V	ersion 1.	.0
	ABC	DEF	G H	ΙJ	K L	MNO	PQR	STU	V W	XYZ
Α	KWG	DIO	MB	ΗU	ΧL	ZEA	JFR	NVS	TC	QYP
В	JAR	NBE	G C	ΟY	VH	PLK	MDT	ZQI	SW	UFX
C	WID	AHZ	ΕK	LM	RF	NJU	O V G	XST	CY	BPQ
D	ВАТ	FDJ	I G	ZE	WS	KHX	ONY	PRL	UM	QCV
Ε	SDZ	JXP	ВЕ	MY	ΗU	AWL	KFR	QCG	TN	VIO
F	LIA	WFD	ЕН	ΚZ	M J	OGR	TUQ	VNX	PS	YBC
	0	1	2	3	4	5	6	7	8_	9
G	BYT	CSZ	HK	GX	NI	RFV	DJW	LAM	PΕ	OQU
Н	HFB	ZSD	CI	A G	YK	RLP	UMV	NQJ	ΧT	EWO
ı.	SZM	DOC	GH	FI	PT	NKR	JAW	VEQ	LY	UXB
J	REL	QAZ	ΚΙ	TH	FO	XGW	DYU	CNV	SP	MBJ
K	RCK	ILH	QT	US	ΥJ	FVB	WXN	GMZ	PE	ODA
L	ZBS	HCD	G F	I K	AL	RJM	PNV	QYT	WU	XOE
R.A	0	1	2	3	4	5	6	7	8	9
M N	E O X I F G	U W T D C H	Y Q S B	V N Z E	P M O X	J R L U W T	A K I Y Q V	F G D N P M	C H J R	S B Z L A K
0	PMN	ECK	IS	GO	DW	AYZ	HFB	JTV	RQ	XUL
Р	NVQ	YTW	UX	OE	ZΒ	SHA	PMJ	RLK	ΙF	DCG
Q	GDF	CIH	KS	AB	LZ	RJE	OXU	WTY	QV	NPM
R	MPJ	NRV	ZQ	LY	BT	SWH	UAK	XCO	G D	E F I
• •	0	1	2	3	4	5	6	7	8	9
S	ВНО	FEX	WY	VΡ	J R	AIG	CSZ	OUT	QN	MLK
Т	DFK	LJP	VY	WX	ΕZ	SCG	IAR	MNQ	TU	ОВН
U	MPN	DZB	SH	CV	QΥ	GKR	JWU	XFE	LO	ТІА
٧	IKA	MPN	V Q	L R	JΥ	TWU	XOE	ZBS	НС	DGF
W	DGF	IWB	ΖV	ΚA	LS	HCR	JMP	QYT	ОЕ	UXN
X	ALR	JMF	ZΒ	S Q	C D	IKG	HWU	PNV	ΕY	ТОХ
Υ	TMP	NBS	НС	WU	ΧK	IAL	RJO	EZV	QY	DGF
	0	1	2	3	4	5	6	7	8	9
			Α	ET = Aut	hentication	on Encryptio	n Table			

LUMBERJACK (Even)



388th vFS Kneeboard Pack

GROUND POWER.....

THROTTLE

LANDING GEAR

HOOK

MASTER ARM

AIR SOURCE

MAIN PWR

FLCS PWR TEST

Verify ACFT BATT TO FLCS, FLCS PMG & FLCS PWR (4) lights ON

INS TO ALIGN.....

MIDS LVT.....

MAIN PWR

Verify ELEC SYS, HYD/OIL PRESS, FLCS RLY, SEC & ENGINE

Verify FLCS RLY light ON

AVIONICS.....

MMC, ST STA, MDF, UHF, DL, GPS

lights ON



CONNECT

PRI – GUARDED

DOWN and LOCKED

OFF

UP

NORM

BATT

SAFE (OFF)

TEST - HOLD

MAIN PWR

Confirm OFF

AS REQUIRED

ALIGN NORM

SET & CHECK-IN

BACKUP

ON

ON

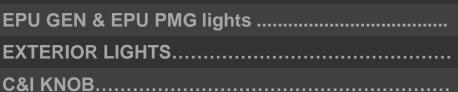
POSITION LIGHT- FLASH

STARTUP 1 / 4

SKIN, BORT, LOADOUT, FUEL	SET
INTERNAL LIGHTS	SET
FUEL MASTER	ON – GUARDED
ENGINE FEED	NORM
EPU	NORM – GUARDED

ENG CONT

AUDIO PANEL 1&2..... UHF BACKUP.....





	START	UP 2 / 4
FLIGHT CLOCK	START	EN
I &R HARDPOINT	AS REQ	CANOPY

FCR.....ON

IFF MASTER KNOB., SET&STANDBY

*DTC..... LOAD

RADAR ALTIMITER... STBY

DED INS.....ENTER DATA

HUD.....AS REQ

C&I.....UFC

CAT 1 / CAT 3.....AS REQ UFC RADIO...... SET & CHECK-IN

ATIS.....CHECK **AVIONICS PROGRAM**

SELECTIVE JETTISON SET

SMS.....PROGRAM ALOW.....SET

BINGO...... SET JOKER

MSL.....SET

*CRUISE......CHECK TACAN.....PREP

*IDM.....CHECK BULLSEYE..... CHECK

STEERPOINTS......PROGRAM EGI CHECK ALIGNED..... SET NAV REPORT READY..... ALPHA CHECK &

ENGINE START

NGINE START JFS TO START 2...... VERIFY LIGHT

.....LOCKED RPM 20%...... THROTTLE TO IDLE

RPM 55%..... VERIFY JFS OFF

RPM 60%..... VERIFY ENG. WARN OFF

RPM 15-70%...... VERIFY HYD/OIL OFF **ENGINE IDLE CHECK**

FUEL FLOW...... 700-1700 PPH

GROUND POWER..... DISCONNECT

FLIGHT CONTROLS... CYCLE & FREE

FLCS.....RUN BIT

SPEED BRAKE......CYCLE

EPU FUEL QUANTITY... 95-102%

AIR REFUEL SWITCH CYCLE & CHECK

RWR

&CMDS.....

TESTS......PROBE, FIRE MAL& IND

OIL PRESSURE..... MIN 15 PSI

NOZZLE POSITION.... > 94%

RPM......62-80% FTIT..... < 650 DEGRESS C HYD PRESSURE A&B... 2850-3250

AFTER START

HMDS.....ON &STOW

NVG......PREP & STOW FUEL QUANTITY..... TEST & SET NORM

ON / TEST/ STANDBY





SIAKTUP 3 / 4	
DBU CHECK	

DIGITAL BACKUP SW.....BACKUP

DBU ON WARNING LIGHT......CHECK ON

OPERATE CONTROLS......CHECK RESPONSE

DIGITAL BACKUP SW.....OFF

DBU ON WARNING LIGHT......CHECK OFF

TRIM CHECKS

TRIM AP DISC SW......DISC

STICK TRIM BUTTONS ACTION......CHECK NO RESPONSE

TRIM AP DISC SWITCH NORM

STICK TRIM BUTTONS......CHECK INDICATORS & CENTRE

RUDDER TRIM CHECK......CHECK AND CENTER

EPU CHECK

EPU GEN AND EPU PMG LIGHTS.....CHECK OFF

OXYGEN......SET 100%

TOE BRAKES.....ENGAGE

EPU SWITCH......OFF THEN NORM

THROTTLE SET 80%

EPU/GEN TEST SW..... EPU/GEN AND HOLD

EPU AIR LIGHT......VERIFY ON

EPU GEN AND EPU PMG LIGHTS......VERIFY OFF

FLCS POWER......ON

VERIFY EPU RUN LIGHT ON...... WITHIN 5 SECONDS

EPU GEN TEST SW...... OFF (RELEASE)

THROTTLE IDLE

OXYGEN...... NORM



STARTUP 4 / 4
BEFORE TAXI

ALTIMITER......SET

INS...... CHECK NAV

TGP.....CHECK STOWED

MFD'S.....AS REQ

GROUND CREW......CHECK CLEAR

STEADY

POSITION LIGHTS

REPORT.....READY TAXI TAXI BRIEF (FLIGHT LEAD)...... COMPLETE

NOSE WHEEL STEERING.....ON

ON TAXI LIGHTS

BRAKESCHECK

HOLD SHORT PROBE HEAT.....ON

TRIM AS REQ IFF......NORM

ENGINE CONT......VERIFY PRI

SPEED BRAKE......CLOSED

EJECTION SEAT...... ARM TACANON

RADAR ALTIMITER..... ON

TAKE OFF BRIEF (FLIGHT LEAD)......COMPLETE

ANTI COLLISION & LANDING LIGHT ON (LINE UP)

EXTERNAL TANKS......VERIFY FEEDING

FLIGHT CONTROL..... FREE & CLEAR OIL PRESSURE......CHECK PSI



NORMAL OPERATIONS

NORWAL OF LIVATIONS					
TAK	E OFF	DECENT			
WIPEOUT	CLEAR	FUEL CHECK	BALANCE		
RPM	.90%	LANDING LIGHT	ON		
ENG. CHECK	GREEN	SWITCHES	SAFE		
NWS	.OFF (70KTS)	TGP	STOW		
CLIM	B OUT	ATIS	CHECK		
GEAR	UP	ILS/TACAN	PROGRAM		
ENGINE	GREEN	CRS/HDG	SET		
FUEL	CHECK FEED	FINAL SPEED	COMPUTE		
LANDING LIGHT	OFF	CLEAR COMP	LETE		
DRIFT CO	AS REQ	PROBE HEAT	OFF		
BACKUP AVIONICS	CHECK	ECM PWR	OFF		
Α	AR	SPEED BRAKES	CLOSED		
MASTER ARM	.SAFE	EJECTION SEAT	SAFE		
LASER ARM	SAFE	IFF	STBY		
SMS	VERIFY WPN SAFE	LANDING LIGHTS	TAXI		
CMDS	OFF	ANTI COLLISION	OFF		
TACAN	AS REQ	SHUTDOW	'N		
EMITTERS	AS REQ	EGI	OFF		
LIGHTS	AS REQ	AVIONICS	OFF		

THROTTLE..... OFF

EP GEN/EPU PMG...... OFF

MAIN PWR..... OFF

OXYGEN..... OFF

CANOPY..... OPEN

JFS RUN LIGHT..... CHECK

388th vFS Kneeboard Pack

STORES CONFIG....CONFIG

LIGHTS..... AS REQ



COMBAT OPERATIONS

FEI	NCE	A-G (CHECK
MASTER MODE	AS REQ	A-G MODE	SELECT
MASTER ARM	ARM	MASTER ARM	ARM
RADAR	AS REQ	LASER ARM	AS REQ
TACAN	AS REQ	ORDNANCE	SELECTED
LASER ARM	AS REQ	PROFILE	SET
CHAFF/FLARES	SET	CMDS	.SET
* ECM JAMMER	AS REQ	SOI / SPI	SET
RWR	CHECK ON	CCIP / CCRP	AS REQ
HMDS	ON	ATTACK BRIEF	.COMPLETE
IR COOL	SET	EGI	RESS
TGP	AS REQ	OPS CHECK	.PERFORM
AGM65 PWR	AS REQ	BUDDY CHECK	PERFORM
A-G WEAPONS	CHECK RELEASE PARAMTERS	BDA/INFLIGHT REP	TRANSMIT
THREAT&MSL VOLUME	SET		





Presets ATRM v1.0

COMM 1 - UHF					CC	OMM 2	-VHF
1	310.0		Internal PRI	1			Internal SEC
2	237.0	BLUE 3	Check-in	2	126.1		Al Dahfra GND
3	228.0	ORANGE10	A-A #1	3	126.2		Al Dahfra TWR
4	249.0	GREEN4	A-G#1	4	127.1		Al Dahfra CNTRL
5	234.0	OCHRE 9	Inflight report	5	136.25	INDIGO6	AWACS backup
6	242.5	OCHRE 4	Range 1	6	132.75	LEMON3	Range 3 SEC
7	239.75	INDIGO 4	Range 2	7	120.25	OCHRE5	Range 4 SEC
8	243.75	CHERRY 8	Range 3	8	136.75	OCHRE 8	Range 5 SEC
9	225.75	INDIGO 10	Range 4	9	139.75	AQUA10	Range 6 SEC
10	235.75	AMBER 4	Range 5	10	130.7	YELLOW 6	Range 9 SEC
11	233.25	BROWN 7	Range 6	11	151.0	AR201	ARCO
12	234.75	PINK 7	Range 7	12	144.0	AR402 (R)	ARCO (RED)
13	230.5	INDIGO 11	Range 8	13	143.0	AR403 (R)	ARCO (RED)
14	236.5	LEMON 7	Range 9	14	150.0	AR101	ARCO
15	245.0	RED 5	Range10	15	118.2	TWR	Ras Al Kaimah(R)
16	228.75	GRAY 5	Range 11	16	124.2	TWR	Khasab (R)
17	242,25	ORANGE 2	Range 12	17	128.2	TWR	Sas Al Nakheel(R)
18	235.0	WHITE 11	MOA 1	18	119.2	TWR	Al Ain
19	246.25	ORANGE 7	MOA 2	19	121.2	TWR	Al Minhad
20	230.0	YELLOW 6	MOA 3	20	119.6	TWR	Liwa



388th vFS Kneeboard Pack

LOCATION/

TARGET

THREAT

FRIENDLIES

(OPTIONAL)

ORDNANCE

REMARKS

important mission during an event.

Retasking brief is used from AWACS to retask a flight to a new, more

JTAC/FAC(A)/SCAR

KILLBOX NAME

ENEMY SITUATION/

AND STATUS



Template format: Retasking brief

TASK / MISSION



Mission number

Number and type AC

Position and altitude

Ordnance

Time on station

Capabilities

Abort code

flight to a SCAR flight

Fighter check-in is used by CAS flights to a JTAC/FAC(A) or from a AR



Template format: Fighter Check-in



GFC Intent for

Target/Enemy

CAS

Threat

Friendly

Artillery

Clearance

authority

Ordnance

requested

Restrictions

Hazards

Remarks

missions

388th vFS Kneeboard Pack



Template format:	Area of	Operations	update

Template format:	Area of	Operations	update

AO update is used by JTAC/FAC(A) to give a situation update for CAS

Templ	late '	format:	Area	of	Operat	tions	upda	ate



Template f	ormat:	CAS	briet

_			

GAMEPLAN

Type of Control

BOT/BOC

Ordnance

Method

9 LINE

IP

Heading

Distance

Elevation

Target

Location

Mark

Friendlies Egress

Remarks

Restrictions

CAS brief provides targeting information during CAS missions.

Remarks/Restrictions

Gameplan/Flow

Target description

Location

Elevation

Area weather

Current threat

Additional

SCAR brief is used to coordinate AR flights and give necessary

information

information to AR flights

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Template format: SCAR brief



Template format:	In	Flight	Report

INFORMATION

In flight Report is used to provide BDA and situation updates to AWACS

132nd

INFLTREP

Callsign

Mission

Number

Target

Location

Time on Target

Results (BDA)

during a mission.

Remarks



388th vFS Kneeboard Pack

132nd Battle handover

(1) Friendly situation

(2) Threat update

(3) Enemy situation /

(4) Control Measures

(5) Clearance authority



Template	ioiiiiat. I	iaiiaovci	DITCI

brief

targets

in effect

callsigns

the second element during YO-YO operations

(if applicable)

(6) Frequency and

INFORMATION

Handoverbrief is used to brief either a new flight coming on station,

assuming the task/role/responsibility of the flight on station or to brief





Transmission authentication: TAT-101

													., .	1.0
000			040			000			00	00		0.400	Versio 	
000			010			020			03			0400		0500
060			070			080			09			1000		1100
120			130			140			15			1600		1700
180		00	<u> 190</u>		00	200		00	21		00	2200	00	2300
00 -	AQ	00	-	SX	00	-	BE	00	-	~.	00	- AW	00	- MH
02 -	QE	02	-	BU	02	-	ST	02	-		02	- QL	02	- MD
04 - 06 -	CE ZR	04 06	-	ML	04 06		MW	04 06	-		04	- CH	04	- QW
	SY	08		MZ CD	08		AD BI	08	-	AI SW	06 08	- CV - QC	06	- ZN - AX
10 -	BY	10		CF	10		SU	10	Ī	QD	10	- QC - ZJ	10	- AA - QT
12 -	MT	12		BD	12		BA	12	-	QF	12	- 23 - SM	12	- Q1 - MQ
14 -	MY	14		CW	14		AO	14		CY	14	- CO	14	- SE
16 -	QY	16		ZQ	16		BT	16	_	ZG	16	- SD	16	- BF
18 -	MA	18	_	BL	18		CR	18	_		18	- ZD	18	- QO
20 -	AT	20		CI	20	_	QQ	20	_	. –	20	- SP	20	- ZX
22 -	AY	22	_	BX	22	_	AG	22		AN	22	- SK	22	- MF
24 -	MS	24	_	MU	24	_	SS	24	_		24	- QG	24	- BC
26 -	ВО	26	_	SR	26	_	ZA	26		AU	26	- BN	26	- BS
28 -	BP	28	_	AE	28	_	AA	28		MC	28	- ZM	28	- ZK
30 -	AF	30	_	ZI	30	_	СР	30	-		30	- AP	30	- MN
32 -	АН	32	_	QR	32	-	QP	32	-	ZU	32	- SH	32	- QH
34 -	MP	34	-	BZ	34	-	QA	34		AS	34	- ZC	34	- CB
36 -	SL	36	-	BR	36	-	QS	36	-		36	- SQ	36	- BW
38 -	CA	38	-	ZL	38	-	ZS	38	-	ВВ	38	- SF	38	- SZ
40 -	CS	40	-	MJ	40	-	MO	40	-	QJ	40	- CG	40	- QZ
42 -	MG	42	-	BG	42	-	ВН	42	-	QK	42	- SN	42	- CJ
44 -	QN	44	-	ZT	44	-	AJ	44	-	ZE	44	- ZY	44	- AL
46 -	AC	46	-	AM	46	-	AK	46	-	SJ	46	- QX	46	- QV
48 -	MV	48	-	SG	48	-	ZO	48	-	QU	48	- ZH	48	- CQ
50 -	BM	50	-	ZF	50	-	SC	50	-	CX	50	- ZW	50	- MB
52 -	SA	52	-	ZV	52	-	CK	52	-	CC	52	- BV	52	- QM
54 -	СТ	54	-	AR	54	-	CL	54	-	SI	54	- CM	54	- MK
56 -	MI	56	-	BJ	56	-	CZ	56	-	BK	56	- QB	56	- SB
58 -	ZP	58	-	AZ	58	-	MM	58	-	AV	58	- CU	58	- ME

TAT=Transmission Authentication Table



388th vFS Kneeboard Pack



132nd Frequencies

	1	2	3	4	5	6	7	8	9	10	11	
Blue	123.000	238.250	237.000	128.000	31.25	118.500	117.500	226.250	117.000	30.75	125.000	Blue
Green	30.00	45.00	120.000	229.000	230.250	248.750	231.500	32.25	137.750	123.750	32.50	Green
Red	140.250	31.00	35.25	127.100	245.000	30.50	231.250	118.000	134.100	243.500	119.250	Red
Yellow	227.500	128.100	237.750	34.00	121.250	230.000	121.100	225.000	31.75	133.000	121.750	Yellow
Orange	122.000	242.250	243.250	129.000	117.750	225.250	246.250	32.75	119.500	228.000	229.750	Orange
Purple	248.500	127.000	134.250	130.250	38.25	131.000	236.000	237.500	133.750	138.100	127.750	Purple
White	126.250	137.250	238.500	126.000	237.250	117.250	121.000	118.750	120.500	119.000	235.000	White
Gray	35.00	248.000	128.750	122.100	228.750	235.250	135.250	242.750	118.250	122.250	30.25	Gray
Pink	233.000	130.100	124.000	128.250	125.750	34.50	234.750	34.75	234.500	244.750	238.000	Pink
Brown	248.250	138.750	136.000	33.50	132.250	232	233.250	231.750	120.750	228.500	137.000	Brown
Violet	240.000	135.100	134.750	232.500	232.750	32.00	130.750	129.250	132.000	228.250	136.100	Violet
Amber	124.750	238.750	227.000	235.750	244.500	226.000	36.50	123.250	126.750	131.100	124.100	Amber
	1	2	3	4	5	6	7	8	9	10	11	
Aqua	33.75	129.750	226.750	131.250	231.000	247.750	133.100	233.750	236.250	139.750	36.75	Aqua
Cherry	121.500	31.50	242.000	35.75	243.000	138.000	132.100	243.750	239.250	131.750	244.250	Cherry
Gold	247.000	134.000	240.500	129.100	36.25	229.250	235.500	241.500	127.250	35.50	245.500	Gold
Coral	124.250	33.25	138.250	240.250	135.750	241.750	33.00	139.100	239.000	229.500	225.500	Coral
Indigo	137.100	119.750	233.500	239.750	245.750	136.250	139.000	246.500	140.750	225.750	230.500	Indigo
Lemon			132.750				236.500		234.250			Lemon
Lime	247.250	126.100	246.000	244.000	230.750	37.00	232.250	245.250	38.75	130.000	247.500	Lime
Maroon	139.250	38.00	239.500	122.750	39.25	39.50	240.750	241.000	37.25	226.500	140.000	Maroon
Ochre	227.750	236.750	227.250	242.500	120.250	39.00	38.50	136.750	234.000	125.250	39.75	Ochre
Olive	140.100	246.750	141.000	141.750	141.100	150.000		149.0	141.250	151.000		Olive
Black	35.650	25.375	48.550		36.300	37.800	38.200	39.800	40.400	41.000	36.333	Black
Bronze	309.000	140.700	130.700	135.700		306.000	132.700	310.000				Bronze
Copper		134.700		141.700	310.900	309.500			307.000	133.700		Copper
Silver	131.700	305.000	310.500	308.000			136.700		142.700	309.900		Silver
	1	2	3	4	5	6	7	8	9	10	11	





Contracts

TAXI:

- Trail

LINEUP:

- Echelon lineup (2ship)
- 3 in the slot (4ship)

TAKE-OFF / DEPARTURE /REJOIN

- 20 sec seperation
- AB off at 300kts
- 350kts
- Finger 4, #2 Left

CRUISE

- 350kts or M0.8 (what is lower)
- Turns: 30° bank

RECOVERY

- OHB
- 5 sec interval in the break

AIR COMBAT READINESS

- 450 Kts/M0.70 defensive Combat spread
- 500-1000ft vertical seperation
- Energy sustaining turns

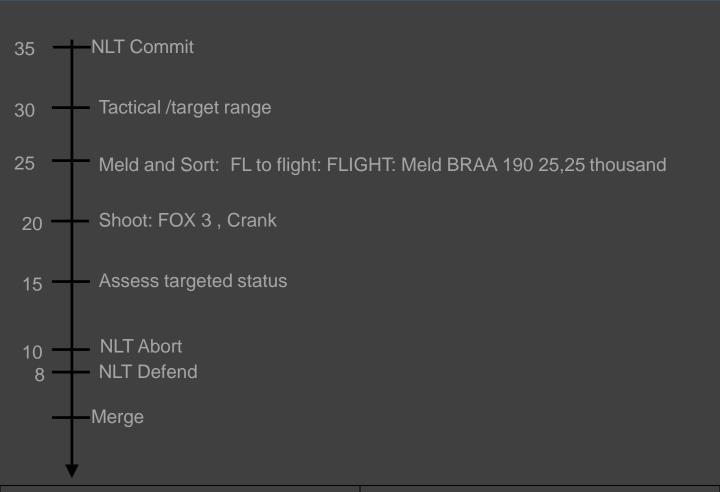
TARGETING

- 1: Lead, High, Left
- 2: Trail, Low, Right
- 3: Maintain SA; support





A-A BVR Timeline



4 Assumptions:

Visual: meaning they have sight of the other fighter

No Joy: meaning they do not have a tally on any unknown or hostile aircraft

Naked: meaning the fighters are not spiked by hostile radars

Clean: meaning the fighter has no radar contacts

#2 report if this changes and it have not been picked up by lead.

Brevity

MELD: Cease radar sanitization and focus radar on single target. Set:

- -Range to 40 NM
- -Reduce to 80 degrees Azimuth

Radar:

#1 High and far **#2** Low and near

Sorting:

#1: Left, Lead, High

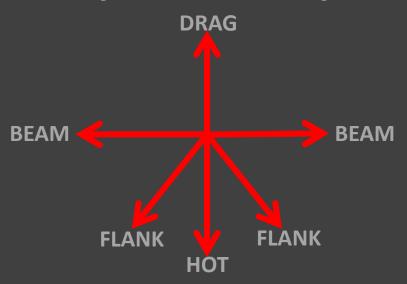
#2: Right, Trail, Low



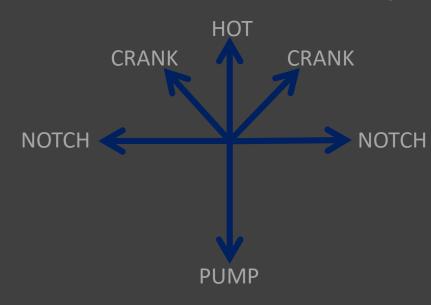


Reference

Enemy's relation to you



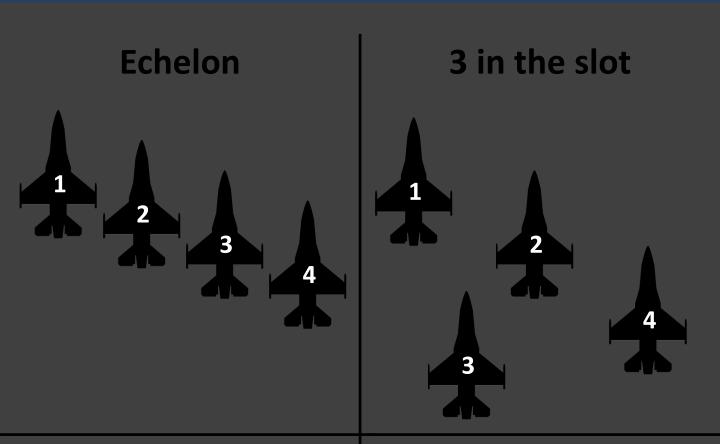
Your relation to enemy

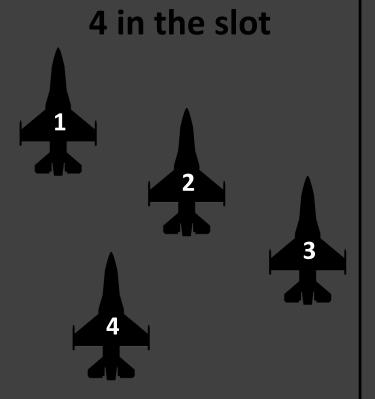






Lineups

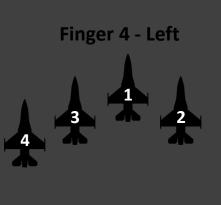


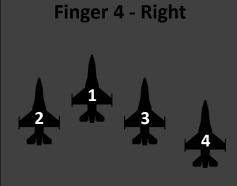






Formations

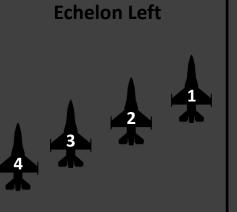


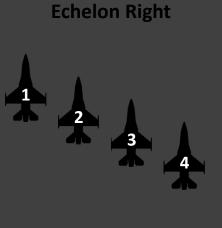


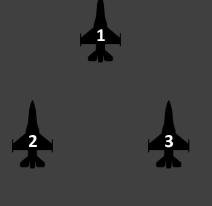


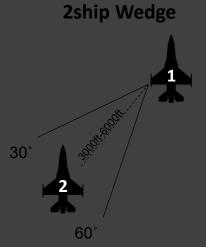


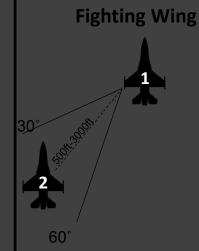
3ship VIC

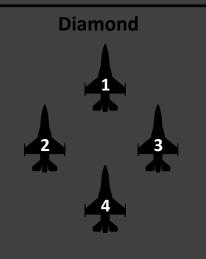














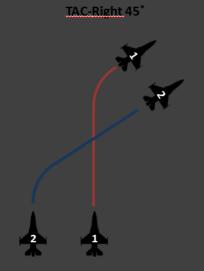




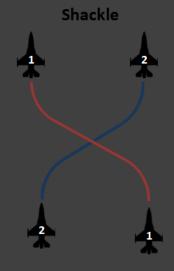
Turns

TAC-Left 90°

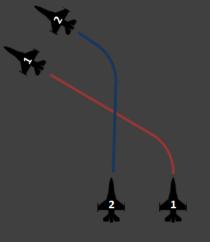
TAC-Left 45°



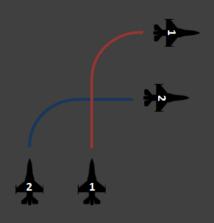
TAC-Right 90°



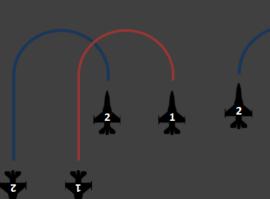
Cross Turn

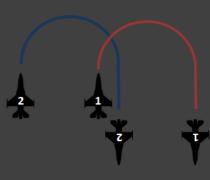


Hook Left



Hook Right



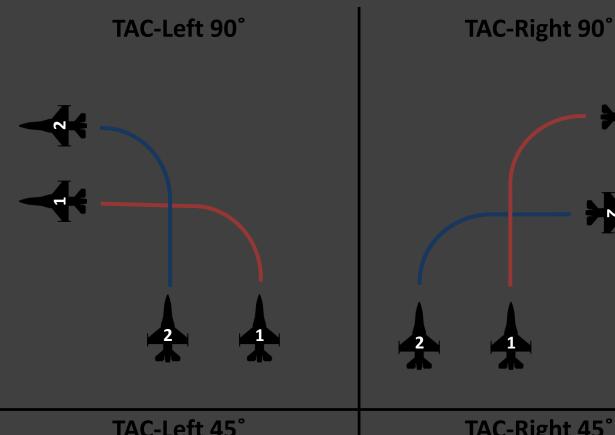


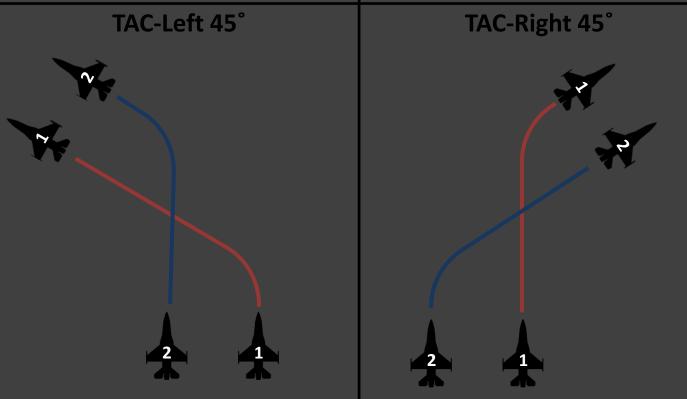






Turns page 1



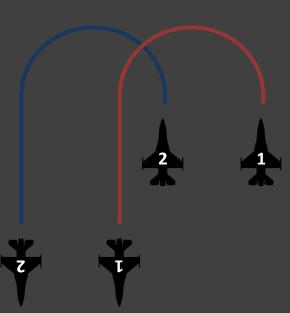




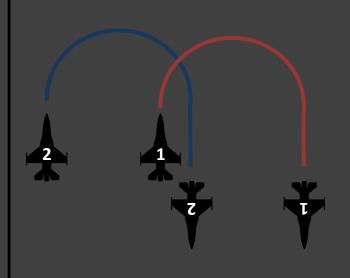


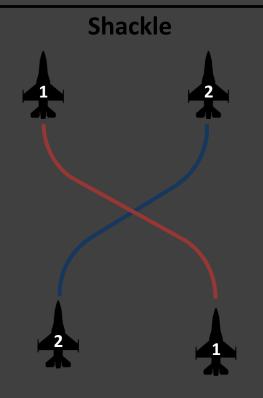
Turns page 2

Hook Left

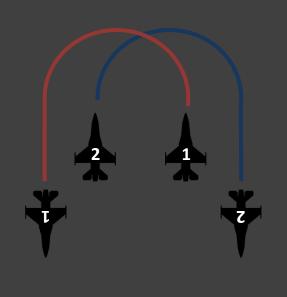


Hook Right





Cross Turn





Knot

200

210

220

230

240

250

260

270

280

290

300

310

320

330

340

350

360

370

380

390

388th vFS Kneeboard Pack



per minute

6.7

6.8

7.0

7.2

7.3

7.5

7.7

7.8

8.0

8.2

8.3

8.5

8.7

8.8

9.0

9.2

9.3

9.5

9.7

9.8

Knots and nautical miles

Knot

400

410

420

430

440

450

460

470

480

490

500

510

520

530

540

550

560

570

580

590

	Nautical mile	 Nautical mile
IXI	iots and n	CS

per minute

3.3

3.5

3.7

3.8

4.0

4.2

4.3

4.5

4.7

4.8

5.0

5.2

5.3

5.5

5.7

5.8

6.0

6.2

6.3

6.5





Template format: SCRAMBLE

This is	with an rolling Agency)	(QRA/CAS/AR/CSA	_SCRAMBLE
For	, Time is _ ^{5e}	Z, I authe	nticate
Scramble	Flight callsign	Number Type o	of AC
Vector	, at	Flightevel or Feet	
Proceed t		ates/Killbox/Location	
Contact_	On	Frequency Bac	kup
Remarks:			





Risk Estimate Distances (RED)

Weapon	Description	0,1 % PI
MK-82 contact	500 lb bomb	300m
	500 lb bomb/ high-	
MK82 HD contact	drag	300m
MK84 contact	2000 lb	350m
CBU-87	Cluster	350m
CBU-103	Cluster	300m
GBU-12	500 lb Laser Guided	200m
GBU-10	2000 lb Laser Guided	250m
GBU-38	500 lb JDAM	200m
GBU-31	2000 lb JDAM	250m
	Maverick 125 lb	
AGM-65	warhead	150m
	2.75" Rockets	
M151, M229, M261	medium altitude	250m
	2.75" Rockets low	
M151, M229, M261	altitude	300m
GAU-8	30mm Gatling gun	75m
2A42	30mm KA-50	75m
UPK 23-250	23mm Gunpod KA50	50m
S-8	80mm Rocket KA-50	200m
S-13 OF	122mm Rocket KA50	250m
9K121 VIKHR	130mm Missile KA50	100m
KH-25ML	275mm Missile KA50	175m
M134 Minigun	7.62X51 gatling UH-1	50m







Target Location Error Catgory (TLE)

| TLE CAT |
|---------|---------|---------|---------|---------|---------------|
| 1 | 2 | | 4 | 5 | 6 |
| 0-6m | 7-15m | 16-30m | 31-91m | 92-305m | Above
305m |