BY ORDER OF THE SECRETARY OF THE AIR FORCE

AFMAN11-2CV-22V3CL-1 18 JULY 2019

Certified Current, 7 Nov 2023



Flying Operations

FLIGHT CREW CHECKLIST CHECKLISTS AND SIGNAL TABLES COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

ACCESSIBILITY: Publications and forms are available for downloading or ordering on the e-Publishing website at www.e-Publishing.af.mil.

RELEASABILITY: There are no releasability restrictions on this

publication

SUPERSEDES: AFI 11-2CV-22V3 CL-1, 30 JULY 2015

OPR: HQ AFSOC/A3V Certified by: HQ USAF/AF/A3TS (Maj Gen Scott F. Smith)

Pages: 30

This checklist compliments AFMAN 11-2CV-22, Vol 3, *CV-22 Operations Procedures*, and is applicable to all subordinate AFSOC flying units that operate the CV-22 aircraft. Aircrew will use the abbreviated checklists during mission planning and execution. This manual applies to civilian employees and uniformed members of the Regular Air Force, Air Force Reserve and Air National Guard, unless explicitly otherwise provided. Additional notes and supplemental information may be added after review by AFSOC/A3V. The authorities to waive wing/unit level requirements in this publication are identified with a Tier ("T-0, T-1, T-2, T-3") number following the compliance statement. See AFI 33-360, Publications and Forms Management, for a description of the authorities associated with the Tier numbers. Refer recommended changes and questions about this publication to HQ AFSOC/A3V using the Air Force (AF) Form 847, *Recommendation for Change*

of Publication; route AF Forms 847 from the field through the appropriate functional chain of command. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual 33-363, Management of Records, and disposed of in accordance with the Air Force Records Disposition Schedule located in the Air Force Records Information Management System.

N-3	AFMAN 11-2CV-22V3 CL-1 18	3 JULY 2019
	TABLE OF CONTENTS	
	GENERAL	
General .	Aircrew Briefing	N-4
Team Br	ief	N-13
Airdrop	Prep Checklists	N-16
Airdrop	Checklists	N-18
Post Airo	drop Checklists	N-19
Approac	h Mode Guide	N-20
	IFR BRIEFINGS	
Instrume	ent Departure	N-23
Instrume	ent Approach	N-24
	COMBAT CHECKLISTS	
Combat	Ingress (FENCE IN)	N-25
Combat 1	Egress (FENCE OUT)	N-28
	SIGNALS	
Table 1.	En route Light Signals	N-29
Table 2.	Swimmer Coordination Signals	N-30

г

General Aircrew Briefing

- 1. Time Hack
- 2. Roll Call
- 3. Mission Introduction
 - a. Mission Name/Number
 - b. Classification
 - c. Overview of Area of Operations
 - d. Inventory of References
- 4. Situation
 - a. Intelligence
 - (1) EOB, GOB, AOB
 - (2) Friendly Forces & Planned Operations
 - (3) Isolated Personnel Procedures
 - (4) Code Words/Procedures
 - (5) SPINS/ROE

N-5 AFMAN 11-2CV-22V3 CL-1 18 JULY 2019

- b. Weather
 - (1) Departure/En route/Objective/Destination
 - (2) Sun/Moon Data
 - (3) Sea State/Temperature
 - (4) Limitations
- c. NOTAMS/FCIF/Read File

5. Mission Specifics

- a. Primary and Alternate
- b. Go/No-go Criteria

6. Pre-departure

- a. Designated Lead/Alternate(s)
- b. Tail Numbers/Call Signs/Parking
- c. Aircraft Configuration & Load
 - (1) Passengers
 - (2) Vehicles/Equipment/Cargo

N-6 AFMAN 11-2CV-22V3 CL-1 18 JULY 2019

- (3) Fuel On Board
- (4) Special Mission Equipment/Configuration
- d. Personal Equipment
- e. Timeline
- f. Comm Check
- g. Taxi Plan
- h. Bump Plan/Abort Criteria (min force)

7. Departure

- a. Weight & Balance/Performance Data
- b. Communications/Lighting
- c. Takeoff & Departure
- d. Contingencies
- 8. En route (repeat as appropriate for en route phases)
 - a. Description of route
 - b. Altitude and Speed

N-7 AFMAN 11-2CV-22V3 CL-1 18 JULY 2019

- c. Obstructions & Hazards/Threats
- d. Formation Geometry
- e. Communication/Lighting
- f. Radar Settings/Freq Band
- g. TF Considerations (terrain, nose cold areas)
- h. Crew/Wingman Duties
- i. Evasive Maneuvers/Scatter & Rejoin Plan
- j. IMC/Lost Visual Procedures
- k. Air Refueling
 - (1) Refueling Track (ARIP/ARCP/AREP)
 - (2) ARCT (time hack with tanker)
 - (3) Altitudes (joinup/refuel) & Altimeter Setting
 - (4) Airspeed
 - (5) Call Signs
 - (6) Comm/Lights & IFF/TACAN Settings

N-8 AFMAN 11-2CV-22V3 CL-1 18 JULY 2019

- (7) Type Rendezvous & Tactics (option 1/2)
- (8) Receiver Sequencing and Onloads
- (9) Emergency Recovery Bases
- (10) IMC/Lost Visual Procedures
- 1. Dual/Single Engine Performance
- m. Contingencies
- 9. Objective (brief for each objective/terminal phase) Multiple Approaches (patterns/training sequence)
 - a. Ingress (IP to objective)
 - (1) Formation/Lights
 - (2) Communication/Authentication
 - (3) Altitude and Speed
 - (4) Decel/Beep/Convert Points
 - (5) TOT/Deconfliction Plan
 - (6) Time Calls/Team Leader Comm
 - b. Objective Description

N-9 AFMAN 11-2CV-22V3 CL-1 18 JULY 2019

- (1) Coordinates/DATUM Confirmed
- (2) Features/Markings
- (3) Hazards
- (4) Friendly & Enemy Forces
- (5) Weapons Employment
- c. Actions on Objective
 - (1) Final Approach Procedures
 - (2) Aircraft Positioning
 - (3) Performance Data & CG
 - (4) Planned Operations
- d. Air/Land Operations
 - (1) On/Off-load Procedures
 - (2) Special Equipment/Aircraft Markings
- e. AIE Operations
 - (1) Method/Device & Hover Height

N-10 AFMAN 11-2CV-22V3 CL-1 18 JULY 2019

- (2) CG Control Measures
- (3) Post Deployment/Extraction
- f. Helocast Operations
 - (1) Cabin/Load Config
 - (2) Hoist Preparation
 - (3) Target Parameters
 - (4) Safety Boat/Cover Ship
- g. Refueling Operations
 - (1) Taxi/Sequencing & Onloads
 - (2) Aircraft Marshalling
 - (3) Hookup Procedures/Equipment
 - (4) Post Refuel Actions
- h. Airdrop Operations
 - (1) Drop Type(s)/Order
 - (2) Parameters/Release Point(s)

N-11 AFMAN 11-2CV-22V3 CL-1 18 JULY 2019

- (3) Drop Procedures
- (4) Post Deployment
- i. Crew Duties
 - (1) Go-around/Rejoin
 - (2) Comm Out
 - (3) Emergency Actions
- j. Egress/Rejoin Plan
- k. Contingencies

10. General Crew Duties and Responsibilities

- a. Changing Control of the Aircraft
- b. Emergency Actions
 - (1) Takeoff, En route & Landing
 - (2) Over Land/Water
 - (3) Medical Facilities
- c. NVG Considerations

Τ.	1 10	ATTAIANT 1	1 201/ 221/	OT 1	10 IIII V 2010
N	J-12	AFIMANI	1-ZU.V-ZZV:) (.ll	18 JULY 2019

- d. Cabin NCOIC
- e. Passenger Handling and Communications
- 11. Risk Assessment
- 12. Training
 - a. Threat of the Day
 - b. EP of the Day
- 13. Update Time/Location
- 14. Debrief
 - a. Mission Accomplished?
 - b. Deviations from Plan/Standards
- 15. Preparation/Briefing
- 16. Execution/Paperwork

Team Brief

Roll Call

Time Hack

Inventory of References

1. Aircraft Load

- a. Timeline
- b. Location & Aircraft Markings
- c. Comm Check
- d. Cabin Config
- e. Static Training

2. En route

- a. TCSA Usage
- b. Troop Commander Antenna Connections/Usage

N-14 AFMAN 11-2CV-22V3 CL-1 18 JULY 2019

- c. Time Calls
- d. Personnel/Cargo Restraint Procedures during Approach

3. Objective Area

- a. Description/Diagram/Imagery
 - (1) Confirm Coordinates/DATUM
 - (2) Reference Scheme (Bldg #s, Phase Lines, etc.)
- b. Team Markings
- c. Comm Plan
- d. Sequence of Events/Execution Checklist
- e. Coordination with Aircrew

4. Contingencies

- a. Bump Plan/Min Force
- b. Priority Events and Max Timeline Slippage

N-15 AFMAN 11-2CV-22V3 CL-1 18 JULY 2019 c. Alternate LZ d. Command & Control/Decision Authority e. Comm Out Signals f. Alternate Comm (Cell Phones, etc.) g. Aircraft Emergencies & Egress (1) Over Land

(2) Over Water

5. Debrief

a. Time

b. Location

c. Attendees

h. Injuries/Medical Emergencies

18 JULY 2019

AIRDROP PREP CHECKLIST

WARNING

When conducting airdrop operations, opening the ramp and door prior to reaching drop altitude and airspeed is authorized only when a valid mission requirement exists such as Rescue Airdrop Procedures outlined in AFI 16-1202, *Pararescue Operations, Techniques, and Procedures* and AFTTP 3-3. *Guardian Angel*, scanning for threats, or scanning for obstacles during low-level.

1. Crew Briefing – "COMPLETED" (PF)

NOTE

Limit climbs and descents to 5000 fpm with parachutists on board. Pilot will use the airdrop briefing guide and update DZ threats, winds, and release point. Ensure 10-minute and 6-minute calls are made regardless of time compression for jumper equipment checks.

- 2. Altimeters/Radar Altimeter "SET (STATE SETTING)"
 - (FE/PM)
- **3. Anchor Cable Strops** "SECURE" (S) (Static Line)
- **4. Bundle Marker Lights** AS REQUIRED (S)
- **5.** Utility Isolation Valve "OPEN" (FE)

N-	17	AFMAN 11-2CV-22V3 CL-1 18 JULY 2019
6.	Ca	argo Ramp and Door – "(STATE POSITIONS)" (S)
		NOTE at drop altitude and airspeed, Ramp and Door may be opened at this time the RMWS stowed and SAFE/CLEAR.
7.	Ai	rdrop Prep Checklist – "COMPLETE" (FE)

N-18

AIRDROP CHECKLIST

- 1. At Slowdown Point "SLOW DOWN" (PM)
- **2. Flaps** "SET (STATE SETTING)" (PF)

NOTE

At or below 170KCAS:

Airplane Mode Airdrops – Flaps 40 Degrees

Conversion Mode Airdrops – Flaps Auto

- 3. "TWO MINUTES" (FE/PM)
- 4. **Defensive Systems** "SET (STATE SETTING)" (FE/PM)
- 5. "ONE MINUTE" (FE/PM)

NOTE

Ensure all jumpers are disconnected from ICS cords.

- **6.** "10 SECONDS" (FE/PM) (CRS Only)
- 7. "GREEN LIGHT" (FE/PM)
- **8.** "LOAD CLEAR/JUMPERS AWAY" (S)

NOTE

Scanner will report any airdrop alibis or non-standard cabin configurations to crew immediately

- **9.** "RED LIGHT" (FE/PM)
- 10. Airdrop Checklist "COMPLETE" (FE)

POST AIRDROP CHECKLIST

- 1. **Defensive Systems** "SET (STATE SETTING)" (FE/PM)
- **2. Static Line** "RETRIEVED" (If Required)(S)
- **3. Ramp and Door** As Required (FE/S)

CAUTION

If the Ramp and Door are to remain open, DO NOT accelerate past 140 KCAS until D-BAGS are retrieved. (Static Line Only)

- **4.** Flaps "AUTO" (PF)
- **5. Altimeters/Radar Altimeter** "SET (STATE SETTING)" (FE/PM)
- 6. Utility Isolation Valve "CLOSED" (FE)
- 7. Parachutes DE-ARMED (As Required)

NOTE

Limit climbs and descents to 5000 fpm with parachutists on board.

8. POST AIRDROP CHECKLIST – "COMPLETE" (FE)

APPROACH MODE GUIDE

NOTE

This guide is designed to be run in conjunction with The BEFORE LANDING CHECKLIST, and encompasses the steps that will satisfy the "COMM/NAV/FPD" step in the BEFORE LANDING CHECKLIST during a coupled approach.

NOTE

Coupled Approaches are permitted with the following limitations:

- 1. Power Available greater than OGE +10.
- 2. Less than 10 kts crosswind and tailwind relative to course.
- 3. APPR operations permitted below 6,000 ft. DA.
- 4. TF transition from TF to APPR VG over other than flat terrain is prohibited from altitude APPR gate until final speed.
- 5. Landing area slope less than 6 degrees.

1. Crew Brief

- a. Ingress/Egress corridor
- b. Terrain/obstacles
- c. MSA
- d. Go Around
- e. Crew Duties

2. NAV/Flight Director Panel (FDP) Settings

- a. Appr Leg SELECTED
- b. Leg Type SET (MANUAL/AUTO)
- c. Appr Type SET (STRAIGHT/TURNING)

NOTE:

Turning approach can only be used with FPLN guidance and is prohibited with final range less than .5mi

- d. Guidance SET (DIRECT/FPLN)
- e. Steering SET (WPT/TACAN/VOR)
- f. Waypoint Elevation SET
- g. Final Course SET
- h. Final Range (Turning) SET
- i. Final Speed SET (should be 0)
- j. Final Altitude SET (no lower than 50 feet)
- k. Approach Decel rate SET (FAST/SLOW) (Fast Prohibited above 3000' DA)
- 1. Approach Glideslope (GS) SET (APPR G/S 10 Prohibited)

3. IP to LZ

- a. Couple SELECTED
- b. APPR VERIFY ARMED (once APPR leg is reached)
 - i. Auto-Nacelle armed
 - ii. Hvr Cpld (as rqd) (no lower than 30 feet)
- c. Run-in Altitude SET (Baro/Contour/SCP)
- d. VG enable VERIFIED(if TF is selected)
- e. Vertical Speed Hold (as Rqd)

IFR BRIEFINGS

Instrument Departure

- 1. Ground Checkpoint
 - a. TACAN/VOR Bearing/Course within 4 Degrees
 - b. DME Within 0.5 or 3% (whichever is greater)
 - c. Altimeters Within ± 75 Ft of Each Other and Field Elevation
 - d. ILS Indications
- 2. Departure Routing (Courses/Altitudes)
- 3. Comm/NAVAID Settings
- 4. Hazardous Terrain and Obstacles
 - a. Minimum Required Climb Gradient
- 5. Emergency Return Approach
 - a. DH or MDA
 - b. Inbound Course
- 6. Emergency Safe and/or Sector Altitude

Instrument Approach

- 1. Approach (name & page number)
- 2. Weather (reported and required)
- 3. Comm/NAVAID/FDP Settings
- 4. Altimeters (barometric and radar)
- **5. Sector Altitude (terrain and obstacles)**
- 6. DH/MDA
- 7. Descent Rates
- **8.** Conversion Point
- 9. Speeds
- 10. Lighting/Airfield
- 11. Crew Duties
- 12. Missed Approach/Climbout
- **13. Lost Comm Intentions**

COMBAT CHECKLISTS

Combat Ingress (FENCE IN)

- **1. Personal Equipment** "Set" (P, CP, FE, S)
 - a. Eye Protection
 - b. Body Armor
 - c. CHEM Gear
 - d. Harnesses
 - e. Weapons & Survival Gear
- **2. EMCON** "Set" (PM, FE)
 - a. Radio Responsibilities Assign
 - b. IFF/TCAS As Required
 - c. TACAN As Required

- **3. Performance and Fuel Planning** Review/Confirm (FE/PM)
- **4.** MMR/RadAlt As Required (PM, FE)
 - a. SCP State Setting
 - b. Mode/Options State Setting
 - c. TF Active
- **5. Defensive Systems** "Set" (FE/PM, S)
 - a. Aircraft Weapons Arm/Test Fire/Weapons Control Status
- **6. IBR** "Checked/Set" (FE/PM)
 - a. MATT Status Keyed
 - b. Frequencies As Required
 - $c. \ \ Filters-Fixed/Moving/TOI/BFT$
 - d. Threat Distance (pop up)/Survivor Filter ON/OFF

18 JULY 2019

- **7. Digital Map** "Set" (P, CP)
 - a. Threat/Detection Rings Set/Selected
 - b. Intervisibility/Banding Set/Selected
 - c. Bulls-eye As Required
 - d. Symbology As Required
- 8. Crash Position Indicator As Required (S)
- 9. Exterior Lights "Set" (FE/PM)

Combat Egress (FENCE OUT)

- **1. Aircraft Weapons** As Required (S)
- **2. Defensive Systems** As Required (FE/PM, S)
- **3.** MMR/RadAlt As Required (FE/PM)
- **4. EMCON** As Required (FE/PM)
 - a. IFF/TCAS
 - b. TACAN
- **5. Crash Position Indicator** As Required
- **6. Exterior Lights** As Required
- 7. Battle Damage Assessment As Required

SIGNALS

Table 1. En route Light Signals

Sender gives attention signal.

Receiver acknowledges by giving "attention" signal in reply.

Sender passes signal.

Receiver acknowledges by sending signal back.

Sender verifies signal with a "Yes" signal or a "No" signal.

Sender gives "execute" signal, if needed.

Signal	Action/Meaning
Circular motion	Attention
Vertical movement	Affirmative
Horizontal movement	Negative
Single flash (tail position light)	Trail
Two flashes (tail position light)	Stagger left
Three flashes (tail position light)	Stagger right
• •	Return to base
	Prepare to take formation
	lead
Infinity figure (horizontal figure 8)	Execute/Execute lead change
	Decrease speed
	Increase speed
	Increase position lights
•••	Decrease position lights
	Check light settings
••••	Lost comm - assume radio
	responsibilities

Notes:

- 1. A dot "." is a momentary flashlight flash.
- 2. A dash "-" is a two second flashlight hold down.
- 3. The recipient of a light signal will repeat the signal back to the sender. (T-2)

Signal	Action/Meaning
Crossed wrists	Need doctor or medical kit
Thumbs up	Affirmative (Swimmer or
-	hoist operator)
Breast stroke motion	Deploy backup swimmer
Paddling motion	Deploy raft
Hands cupped, then arms	Deploy stokes litter
outstretched	
Climbing rope motion	Lower rescue cable without
	device
One arm extended overhead, fist	Lower penetrator/rescue sea
clenched	
Wave in or out	Helicopter move in or out
Closed fist, pumping arm, pointing	Parachute nearby
with other arm	
MK-13 flare and/or inflated LPU	Emergency
Aircrew member signaling from	Swimmer recall
aircraft - circling arm overhead,	
finger pointing skyward	
Hand-clapping motion	Sharks
Slashing motion across throat	Cease operations

MARK D. KELLY, Lt Gen, USAF DCS, Operations