

INSTRUMENT APPROACH PROCEDURE CHARTS

**A** IFR ALTERNATE AIRPORT MINIMUMS

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability. **A**NA designation on the approach chart means that pilots may not use that approach as an alternate due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Approaches with the **A**NA designation are not listed in this section. **A** designation on the approach chart indicates that the approach procedure has non-standard minimums (for aircraft other than helicopters) or restrictions (for all users) for its use as an alternate. A procedure is not authorized for alternate flight planning purposes when local weather is not available.

MILITARY USERS NOTE: For IFR alternate airport and minima planning, refer to appropriate service directives.

Alternate Minima (ref: 14 CFR 91.169)

|                                       | Precision Approach                                                                                                                            | Non-Precision Approach |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Standard                              | <b>600-2</b>                                                                                                                                  | <b>800-2</b>           |
| <b>A</b> Non-Standard or restrictions | As indicated below                                                                                                                            | As indicated below     |
| Helicopters                           | For the selected approach:<br>Ceiling: 200' above published ceiling<br>Visibility: the greater of 1 SM visibility or the published visibility |                        |

**Note:** For alternate airport flight planning purposes, precision approach operations include: ILS, PAR, and GLS, and Non-Precision approach operations include: NDB, VOR, LOC, TACAN, LDA, SDF, ASR, RNAV (GPS) and RNAV (RNP).

NAME ALTERNATE MINIMUMS

**ABINGDON, VA**

VIRGINIA HIGHLANDS (VJI).....**LOC Rwy 24<sup>1</sup>**  
**RNAV (GPS) Rwy 6<sup>2</sup>**  
**RNAV (GPS) Rwy 24<sup>2</sup>**

NA when local weather not available.

<sup>1</sup>Categories A, B, 900-2½, Category C, 900-2½,

Category D, 1000-3.

<sup>2</sup>Category C, 800-2½, Category D, 1000-3.

**BALTIMORE, MD**

BALTIMORE-WASHINGTON INTL THURGOOD  
MARSHALL (BWI).....**ILS or LOC Rwy 10<sup>1</sup>**  
**ILS or LOC Rwy 15R<sup>1</sup>**  
**ILS or LOC Rwy 28<sup>1</sup>**  
**ILS or LOC Rwy 33L<sup>1</sup>**  
**RNAV (GPS) Y Rwy 10<sup>2</sup>**  
**RNAV (GPS) Y Rwy 15R<sup>2</sup>**  
**RNAV (GPS) Y Rwy 28<sup>2</sup>**  
**RNAV (GPS) Y Rwy 33L<sup>2</sup>**

<sup>1</sup>LOC, Category D, 800-2½.

<sup>2</sup>Category D, 800-2½.

NAME ALTERNATE MINIMUMS

**BALTIMORE, MD (CON'T)**

MARTIN STATE (MTN).....**ILS or LOC Rwy 33<sup>12</sup>**  
**LOC Rwy 15<sup>13</sup>**  
**RNAV (GPS) Rwy 15<sup>4</sup>**  
**RNAV (GPS) Rwy 33<sup>4</sup>**  
**VOR or TACAN Rwy 15<sup>5</sup>**

NA when local weather not available.

<sup>1</sup>NA when control tower closed.

<sup>2</sup>LOC, Category D, 800-2½.

<sup>3</sup>Categories A, B, 900-2; Category C, 900-2½;  
Category D, 900-2½.

<sup>4</sup>Category D, 800-2½.

<sup>5</sup>Categories A, B, 900-2; Category C, 900-2½;  
Category D, 900-3.

**BLACKSBURG, VA**

VIRGINIA TECH/MONTGOMERY  
EXEC (CBF).....**RNAV (GPS) Rwy 13**  
**RNAV (GPS) Rwy 31**

NA when local weather not available.

Category C, 900-2½.

**BLACKSTONE, VA**

ALLAN C PERKINSON/  
BLACKSTONE AAF (BKT).....**NBD-A<sup>1</sup>**  
**RNAV (GPS) Rwy 4**  
**RNAV (GPS) Rwy 22**

NA when local weather not available.

<sup>1</sup>Categories A, B, C, 800-3.

NAME ALTERNATE MINIMUMS

**BRIDGEWATER, VA**

BRIDGEWATER AIR  
PARK (VBW).....RNAV (GPS) Rwy 33  
NA when local weather not available.

**BROOKNEAL, VA**

BROOKNEAL/CAMPBELL  
COUNTY (0V4).....RNAV (GPS) Rwy 6  
RNAV (GPS) Rwy 24  
NA when local weather not available.

**BUMPASS, VA**

LAKE ANNA (7W4).....RNAV (GPS) Rwy 8  
RNAV (GPS) Rwy 26  
NA when local weather not available.  
Categories A, B, 1100-3.

**CAMBRIDGE, MD**

CAMBRIDGE-DORCHESTER  
RGNL (CGE).....RNAV (GPS) Rwy 34  
RNAV (GPS)-A  
Category D, 800-2½.  
NA when local weather not available.

**CHARLOTTESVILLE, VA**

CHARLOTTESVILLE-  
ALBEMARLE (CHO).....ILS or LOC Rwy 3¹  
RNAV (GPS) Rwy 3²  
RNAV (GPS) Y Rwy 21²  
RNAV (GPS) Z Rwy 21³  
NA when local weather not available.  
¹LOC, Category C, 900-2½; Category D, 900-2¼.  
²Category C, 900-2½; Category D, 900-2¼.  
³Categories, A, B, C, D, 1000-4.

**CHASE CITY, VA**

CHASE CITY  
MUNI (CXE).....RNAV (GPS) Rwy 18¹  
RNAV (GPS) Rwy 36²  
NA when local weather not available.  
¹Categories A, B, 1100-3.  
²Categories A, B, 1000-3.

**CHURCHVILLE, MD**

HARFORD COUNTY (0W3).....RNAV (GPS)-B  
NA when local weather not available.

**CLARKSVILLE, VA**

LAKE COUNTRY  
RGNL (W63).....RNAV (GPS) Rwy 4  
NA when local weather not available.

**COLLEGE PARK, MD**

COLLEGE PARK (CGS).....RNAV (GPS) Rwy 15  
NA when local weather not available.

NAME ALTERNATE MINIMUMS

**CREWE, VA**

CREWE MUNI (W81).....RNAV (GPS)-A  
RNAV (GPS)-B  
NA when local weather not available.  
Categories A, B, 1000-3.

**CULPEPER, VA**

CULPEPER RGNL (CJR).....RNAV (GPS) Rwy 4  
RNAV (GPS) Rwy 22  
LOC Rwy 4  
VOR-A¹  
NA when local weather not available.  
¹Category D, 800-2½.

**CUMBERLAND, MD**

GREATER CUMBERLAND  
RGNL (CBE).....LOC/DME Rwy 23¹⁴  
RNAV (GPS) Rwy 5²  
RNAV (GPS) Rwy 23³  
NA when local weather not available.  
¹Category A, 1000-2; Category B, 1400-2;  
Category C 1500-3, Category D 1600-3.  
²Category A, 1100-2; Category B, 1400-2;  
Category C, 1500-3; Category D, 1600-3.  
³Category A, 1100-2; Category B, 1400-2;  
Category C, 1500-3.  
⁴NA when CBE FBO closed.

**DANVILLE, VA**

DANVILLE RGNL (DAN).....ILS or LOC Rwy 2  
RNAV (GPS) Rwy 2  
RNAV (GPS) Rwy 20  
RNAV (GPS) Rwy 31  
NA when local weather not available.

**DOVER/CHESWOLD, DE**

DELAWARE  
AIRPARK (33N).....RNAV (GPS) Rwy 9  
RNAV (GPS) Rwy 27  
VOR Rwy 27  
NA when local weather not available.  
Category C, 800-2¼; Category D, 800-2½.

**DUBLIN, VA**

NEW RIVER  
VALLEY (PSK).....RNAV (GPS) Rwy 6  
RNAV (GPS) Rwy 24  
NA when local weather not available.  
Category D, 800-2¼.

**EASTON, MD**

EASTON/NEWMAN  
FLD (ESN).....ILS or LOC Rwy 4¹  
RNAV (GPS) Rwy 4²  
RNAV (GPS) Rwy 22²  
¹ILS, LOC, NA when control tower closed.  
²NA when local weather not available.



NAME ALTERNATE MINIMUMS

**LURAY, VA**

LURAY CAVERNS (LUA).....**RNAV (GPS) Rwy 4<sup>1</sup>**  
**RNAV (GPS) Rwy 22<sup>2</sup>**  
**VOR/DME-B<sup>3</sup>**

NA when local weather not available.

<sup>1</sup>Categories A, B, 1400-2, Category C, 1400-3.

<sup>2</sup>Categories A, B, 1000-2, Category C, 1000-2½.

<sup>3</sup>Categories A, B, 1300-2, Category C, 1300-3.

**LYNCHBURG, VA**

LYNCHBURG RGNL/PRESTON GLENN  
 FLD (LYH).....**ILS or LOC Rwy 4<sup>1</sup>**  
**RNAV (GPS) Rwy 4<sup>2</sup>**  
**RNAV (GPS) Rwy 17<sup>3</sup>**  
**RNAV (GPS) Rwy 22<sup>4</sup>**  
**RNAV (GPS) Rwy 35<sup>3</sup>**

<sup>1</sup>LOC, Category B, 900-2, Category C, 900-2½,  
 Category D, 900-2¾.

<sup>2</sup>Category B, 900-2; Category C, 900-2½;

Category D, 900-2¾.

<sup>3</sup>Category B, 900-2.

<sup>4</sup>Categories A, B, 1100-2; Categories C, D, 1100-3.

**MARION/WYTHEVILLE, VA**

MOUNTAIN  
 EMPIRE (MKJ).....**RNAV (GPS) Rwy 26**  
 Category C, 1900-3.

**MARTINSVILLE, VA**

BLUE RIDGE (MTV).....**LOC Rwy 31<sup>1</sup>**  
**RNAV (GPS) Rwy 13**  
**RNAV (GPS) Rwy 31**

Category D, 900-2¾.

NA when local weather not available.

<sup>1</sup>NA when MTV FBO closed.

**MELFA, VA**

ACCOMACK COUNTY (MFV).....**LOC Rwy 3**  
**RNAV (GPS) Rwy 21**  
 NA when local weather not available.

**MIDDLETOWN, DE**

SUMMIT (EVY).....**RNAV (GPS) Rwy 17**  
**RNAV (GPS) Y Rwy 35**  
**RNAV (GPS) Z Rwy 35**

NA when local weather not available.

**NEW MARKET, VA**

NEW MARKET (8W2).....**RNAV (GPS)-A**  
**RNAV (GPS)-B**

Categories A, B, 1100-3.

NA when local weather not available.

NAME ALTERNATE MINIMUMS

**NEWPORT NEWS, VA**

NEWPORT NEWS/WILLIAMSBURG  
 INTL (PHF).....**ILS or LOC Rwy 7<sup>123</sup>**  
**ILS or LOC Rwy 25<sup>3</sup>**  
**LOC Rwy 20<sup>14</sup>**  
**RNAV (GPS) Rwy 2<sup>4</sup>**  
**RNAV (GPS) Rwy 7<sup>4</sup>**  
**RNAV (GPS) Rwy 20<sup>4</sup>**

<sup>1</sup>NA when control tower closed.

<sup>2</sup>NA when local weather not available.

<sup>3</sup>LOC, Category D, 800-2¼.

<sup>4</sup>Category D, 800-2¼.

**NORFOLK, VA**

CHESAPEAKE  
 RGNL (CPK).....**ILS or LOC Rwy 5**  
**RNAV (GPS) Rwy 5**  
**RNAV (GPS) Rwy 23**

NA when local weather not available.

**HAMPTON ROADS**

EXEC (PVG).....**RNAV (GPS) Rwy 10**  
 Category C, 800-2¼.

**NORFOLK**

INTL (ORF).....**ILS or LOC Rwy 5<sup>1</sup>**  
**ILS or LOC Rwy 23<sup>1</sup>**  
**RNAV (GPS) Rwy 14<sup>2</sup>**  
**RNAV (GPS) Rwy 32<sup>2</sup>**  
**RNAV (GPS) Z Rwy 5<sup>2</sup>**  
**RNAV (GPS) Z Rwy 23<sup>2</sup>**  
**VOR Rwy 14<sup>2</sup>**  
**VOR/DME Rwy 32<sup>2</sup>**

<sup>1</sup>LOC, Category D, 900-2¾.

<sup>2</sup>Category D, 900-2¾.

**OAKLAND, MD**

GARRETT  
 COUNTY (2G4).....**RNAV (GPS) Rwy 9**  
**RNAV (GPS) Rwy 27**  
**VOR Rwy 9**

NA when local weather not available.

**OCEAN CITY, MD**

OCEAN CITY  
 MUNI (OXB).....**LOC Rwy 32<sup>12</sup>**  
**RNAV (GPS) Rwy 2**  
**RNAV (GPS) Rwy 14**  
**RNAV (GPS) Rwy 32**

NA when local weather not available.

<sup>1</sup>Category D, 800-2½.

<sup>2</sup>NA when FBO closed.

**ORANGE, VA**

ORANGE  
 COUNTY (OMH).....**RNAV (GPS) Rwy 8<sup>1</sup>**  
**RNAV (GPS) Rwy 26<sup>1</sup>**  
**VOR/DME-A<sup>2</sup>**

NA when local weather not available.

<sup>1</sup>Categories A, B, 900-2.

<sup>2</sup>Categories A, B, 1600-2.

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NAME ALTERNATE MINIMUMS

**PETERSBURG, VA**

TRI CITIES EXEC/DINWIDDIE  
COUNTY (PTB).....**LOC Rwy 5<sup>1</sup>**  
**RNAV (GPS) Rwy 5**  
**RNAV (GPS) Rwy 23**  
**VOR Rwy 23**

NA when local weather not available.

<sup>1</sup>NA when arpt unattended.

**PHILLIPS AAF (KAPG)**

ABERDEEN PROVING  
GROUND, MD.....**RNAV (GPS) Rwy 22**  
NA when control tower closed.

**QUINTON, VA**

NEW KENT  
COUNTY (W96).....**RNAV (GPS) Rwy 11**  
**RNAV (GPS) Rwy 29**  
NA when local weather not available.

**RICHLANDS, VA**

TAZEWELL  
COUNTY (JFZ).....**LOC/DME Rwy 25**  
**RNAV (GPS) Rwy 7**  
**RNAV (GPS) Rwy 25**  
NA when local weather not available.

**RICHMOND, VA**

RICHMOND INTL (RIC).....**ILS or LOC Rwy 16**  
LOC, Categories C, D, 800-2½.

**RICHMOND/ASHLAND, VA**

HANOVER COUNTY  
MUNI (OPF).....**LOC Rwy 16<sup>1</sup>**  
**RNAV (GPS) Rwy 16**  
**RNAV (GPS) Rwy 34<sup>1</sup>**  
**VOR Rwy 16**

Category D, 900-2¾.

<sup>1</sup>NA when local weather not available.

**ROANOKE, VA**

ROANOKE/BLACKSBURG RGNL  
(WOODRUM FLD) (ROA).....**ILS or LOC Rwy 34<sup>1</sup>**  
**LDA Y Rwy 6<sup>2</sup>**  
**RNAV (GPS) Y Rwy 6<sup>3</sup>**  
**RNAV (GPS) Y Rwy 24<sup>4</sup>**  
**RNAV (GPS) Y Rwy 34<sup>5</sup>**  
**RNAV (RNP) Z Rwy 34<sup>6</sup>**

<sup>1</sup>ILS, Categories A, B, C, D, 900-4. LOC, Categories A, B, 1000-2; Category C, 1300-3; Category D, 1700-3.

<sup>2</sup>LDA/GS, Categories A, B, 800-2; Category C, 1300-3; Category D, 1700-3. LDA, Category C 1300-3, Category D, 1700-3.

<sup>3</sup>Categories A, B, 900-2; Category C, 1300-3; Category D, 1700-3.

<sup>4</sup>Categories A, B, 1900-2;

Categories C, D, 1900-3.

<sup>5</sup>Categories A, B, C 1500-5; Category D, 1700-5.

<sup>6</sup>Categories A, B, C, D 1000-4.

NAME ALTERNATE MINIMUMS

**SALISBURY, MD**

SALISBURY-OCEAN CITY  
WICOMICO RGNL (SBY).....**ILS or LOC Rwy 32**  
**RNAV (GPS) Rwy 5**  
**RNAV (GPS) Rwy 14**  
**RNAV (GPS) Rwy 23**  
**RNAV (GPS) Rwy 32**

NA when local weather not available.

**SALUDA, VA**

HUMMEL FLD (W75).....**RNAV (GPS) Rwy 1**  
NA when local weather not available.  
Categories A, B, 1100-3.

**SOUTH BOSTON, VA**

WILLIAM M TUCK (W78).....**RNAV (GPS) Rwy 1**  
**VOR-A<sup>1</sup>**

NA when local weather not available.

<sup>1</sup>Category C 800-2¾.

**SOUTH HILL, VA**

MECKLENBURG-  
BRUNSWICK RGNL (AVC).....**LOC Rwy 1**  
NA when AVC FBO closed.

**STAFFORD, VA**

STAFFORD  
RGNL (RMN).....**ILS or LOC Rwy 33<sup>1</sup>**  
**RNAV (GPS) Rwy 33<sup>2</sup>**

NA when local weather not available.

<sup>1</sup>LOC, Category D, 900-2¾.

<sup>2</sup>Category D, 900-2¾.

**STAUNTON/WAYNESBORO/**

**HARRISONBURG, VA**  
SHENANDOAH VALLEY  
RGNL (SHD).....**ILS or LOC Rwy 5<sup>1</sup>**  
**RNAV (GPS) Rwy 5<sup>2</sup>**  
**RNAV (GPS) Rwy 23<sup>2</sup>**

NA when local weather not available.

<sup>1</sup>LOC, Category D, 900-2¾.

<sup>2</sup>Category D, 900-2¾.

**STEVENSVILLE, MD**

BAY BRIDGE (W29).....**RNAV (GPS) Rwy 29**  
NA when local weather not available.

**SUFFOLK, VA**

SUFFOLK  
EXEC (SFQ).....**RNAV (GPS) Rwy 7**  
**RNAV (GPS) Rwy 22**  
**RNAV (GPS) Rwy 25**

NA when local weather not available.

**TAPPAHANNOCK, VA**

TAPPAHANNOCK/  
ESSEX COUNTY (XSA).....**RNAV (GPS) Rwy 10**  
**RNAV (GPS) Rwy 28**

NA when local weather not available.

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WAKEFIELD, VA

WAKEFIELD

MUNI (AKQ).....RNAV (GPS) Rwy 20

Categories A, B, C, D, 1100-3.

WALLOPS ISLAND, VA

WALLOPS FLIGHT

FACILITY (WAL).....RNAV (GPS) Rwy 4<sup>1</sup>

RNAV (GPS) Rwy 10<sup>1</sup>

RNAV (GPS) Rwy 17<sup>1</sup>

RNAV (GPS) Rwy 22<sup>1</sup>

RNAV (GPS) Rwy 28<sup>1</sup>

RNAV (GPS) Rwy 35<sup>1</sup>

VOR/DME or TACAN Rwy 10<sup>2</sup>

NA when local weather not available.

<sup>1</sup>Category D, 900-2¼.

<sup>2</sup>Categories A, B, 900-2; Category C, 900-2½;

Category D, 900-2¼.

WARRENTON, VA

WARRENTON/

FAUQUIER (HWY).....RNAV (GPS) Rwy 15

RNAV (GPS) Rwy 33

VOR Rwy 15<sup>1</sup>

NA when local weather not available.

<sup>1</sup>Category D 800-2¼.

WASHINGTON, DC

MANASSAS RGNL/HARRY P DAVIS

FLD (HEF).....ILS or LOC Rwy 16L<sup>1</sup>

RNAV (GPS) Rwy 16L<sup>2</sup>

RNAV (GPS) Rwy 16R<sup>2</sup>

RNAV (GPS) Rwy 34L<sup>2</sup>

RNAV (GPS) Rwy 34R<sup>2</sup>

NA when local weather not available.

<sup>1</sup>ILS, Category C, 700-2; Category D, 700-2¼.

LOC, Category D, 800-2¼.

<sup>2</sup>Category D, 800-2¼.

RONALD REAGAN WASHINGTON

NTL (DCA).....ILS or LOC Rwy 1<sup>1</sup>

RNAV (GPS) Rwy 15<sup>2</sup>

RNAV (GPS) Y Rwy 19<sup>3</sup>

LDA Y Rwy 19<sup>4</sup>

LDA Z Rwy 19<sup>5</sup>

<sup>1</sup>LOC, Category B, 900-2; Category C, 900-2¼;

Category D, 900-3.

<sup>2</sup>Category C, 800-2½; Category D, 900-3.

<sup>3</sup>Categories A, B, C, D, 800-2½.

<sup>4</sup>Categories A, B, C, D, 1100-3.

<sup>5</sup>Category C, 900-2½; Category D, 900-3.

NAME

ALTERNATE MINIMUMS

WASHINGTON, DC (CON'T)

WASHINGTON DULLES

INTL (IAD).....ILS or LOC Rwy 1C<sup>1</sup>

ILS or LOC Rwy 1L<sup>1</sup>

ILS or LOC Rwy 1R<sup>1</sup>

ILS or LOC Rwy 19C<sup>1</sup>

ILS or LOC Rwy 19R<sup>1</sup>

ILS or LOC/DME Rwy 12<sup>2</sup>

RNAV (GPS) Rwy 12<sup>3</sup>

RNAV (GPS) Y Rwy 1C<sup>4</sup>

RNAV (GPS) Y Rwy 1L<sup>4</sup>

RNAV (GPS) Y Rwy 1R<sup>4</sup>

RNAV (GPS) Y Rwy 19R<sup>4</sup>

RNAV (GPS) Y Rwy 19C<sup>4</sup>

RNAV (GPS) Y Rwy 19L<sup>4</sup>

RNAV (GPS) Y Rwy 30<sup>4</sup>

VOR/DME Rwy 12<sup>3</sup>

<sup>1</sup>LOC, Category D, 900-2¼.

<sup>2</sup>LOC, Category D, 800-2½.

<sup>3</sup>Category D, 800-2½.

<sup>4</sup>Category D, 900-2¼.

WEST POINT, VA

MIDDLE PENINSULA

RGNL (FYJ).....RNAV (GPS)-B

RNAV (GPS) Rwy 10

VOR-A

NA when local weather not available.

WESTMINSTER, MD

CARROLL COUNTY RGNL/JACK B POAGE

FLD (DMW).....RNAV (GPS) Rwy 34

NA when local weather not available.

WILLIAMSBURG, VA

WALTRIP WILLIAMSBURG

EXEC AIRPORT (JGG).....RNAV (GPS)-C

VOR-B

NA when local weather not available.

Categories A, B, C, 1100-3.

WILMINGTON, DE

NEW CASTLE (ILG).....ILS or LOC Rwy 1<sup>12</sup>

RNAV (GPS) Rwy 1<sup>3</sup>

RNAV (GPS) Rwy 9<sup>3</sup>

RNAV (GPS) Rwy 19<sup>3</sup>

RNAV (GPS) Rwy 27<sup>3</sup>

VOR Rwy 9<sup>4</sup>

VOR Rwy 27<sup>3</sup>

NA when local weather not available.

<sup>1</sup>NA when control tower closed.

<sup>2</sup>LOC, Category D, 800-2¼.

<sup>3</sup>Category D, 800-2¼.

<sup>4</sup>Category C, D, 800-2½.

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**WINCHESTER, VA**

WINCHESTER  
RGNL (OKV).....**RNAV (GPS) Rwy 14<sup>1</sup>**  
**RNAV (GPS) Rwy 32**  
**VOR/DME-A**

NA when local weather not available.

<sup>1</sup>Category D, 800-2 $\frac{1}{2}$ .

**WISE, VA**

LONESOME PINE (LNP).....**RNAV (GPS) Rwy 6<sup>1</sup>**  
**RNAV (GPS) Rwy 24<sup>2</sup>**

NA when local weather not available.

<sup>1</sup>Category D, 900-3.

<sup>2</sup>Category D, 900-2 $\frac{3}{4}$ .

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