



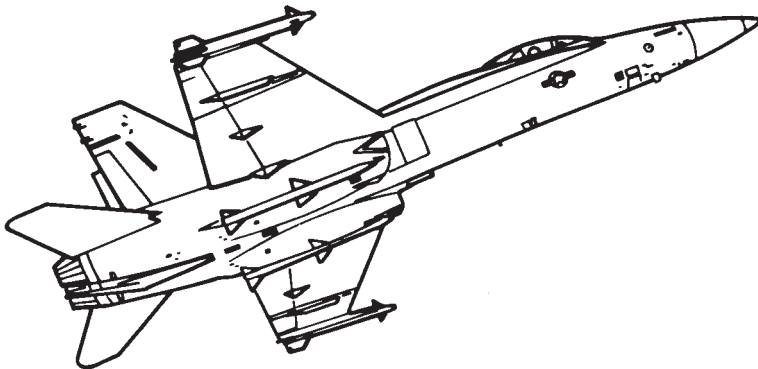
NATOPS FLIGHT MANUAL

NAVY MODEL

F/A-18A/B/C/D 161353 AND UP AIRCRAFT

THIS PUBLICATION SUPERSEDES A1-F18AC-NFM-000 DATED
1 AUGUST 2006 CHANGED 15 JUNE 2007

THIS PUBLICATION IS INCOMPLETE WITHOUT
A1-F18AC-NFM-200 and A1-F18AC-NFM-210



DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies only and their contractors to protect publications required for official use or for administrative or operational purposes only, determined on 1 August 2006. Other requests for this document shall be referred to Commander, Naval Air Systems Command (PMA-265), RADM William A. Moffett Bldg, 47123 Buse Rd, Bldg 2272, Patuxent River, MD 20670-1547.

DESTRUCTION NOTICE - For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.

ISSUED BY AUTHORITY OF THE CHIEF OF NAVAL OPERATIONS AND
UNDER THE DIRECTION OF THE COMMANDER
NAVAL AIR SYSTEMS COMMAND.

THE AIRCRAFT	1
INDOCTRINATION	2
NORMAL PROCEDURES	3
FLIGHT CHARACTERISTICS	4
EMERGENCY PROCEDURES	5
ALL - WEATHER OPERATION	6
COMMUNICATION PROCEDURES	7
WEAPONS SYSTEMS	8
FLIGHT CREW COORDINATION	9
NATOPS EVALUATION	10
PERFORMANCE DATA	11
INDEX & FOLDOUTS	

A1-F18AC-NFM-000



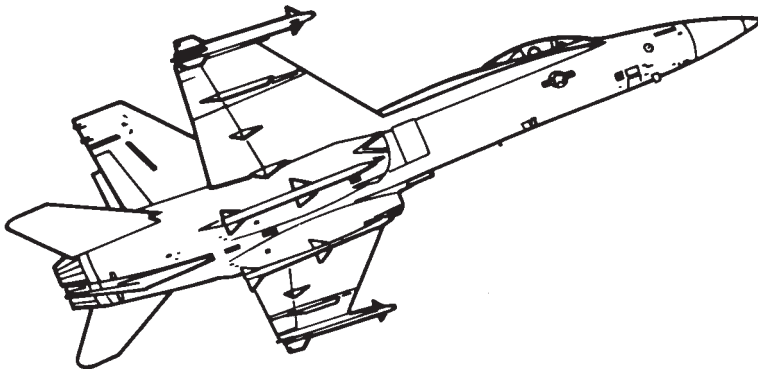
NATOPS FLIGHT MANUAL

NAVY MODEL

F/A-18A/B/C/D 161353 AND UP AIRCRAFT

THIS PUBLICATION SUPERSEDES A1-F18AC-NFM-000 DATED
1 AUGUST 2006 CHANGED 15 JUNE 2007

THIS PUBLICATION IS INCOMPLETE WITHOUT
A1-F18AC-NFM-200 and A1-F18AC-NFM-210



DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies only and their contractors to protect publications required for official use or for administrative or operational purposes only, determined on 15 September 2008. Other requests for this document shall be referred to Commander, Naval Air Systems Command (PMA-265), RADM William A. Moffett Bldg, 47123 Buse Rd, Bldg 2272, Patuxent River, MD 20670-1547.

DESTRUCTION NOTICE - For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.

ISSUED BY AUTHORITY OF THE CHIEF OF NAVAL OPERATIONS AND
UNDER THE DIRECTION OF THE COMMANDER
NAVAL AIR SYSTEMS COMMAND.

THE AIRCRAFT	1
INDOCTRINATION	2
NORMAL PROCEDURES	3
FLIGHT CHARACTERISTICS	4
EMERGENCY PROCEDURES	5
ALL - WEATHER OPERATION	6
COMMUNICATION PROCEDURES	7
WEAPONS SYSTEMS	8
FLIGHT CREW COORDINATION	9
NATOPS EVALUATION	10
PERFORMANCE DATA	11
INDEX & FOLDOUTS	



DEPARTMENT OF THE NAVY
NAVAL AIR SYSTEMS COMMAND
RADM WILLIAM A. MOFFETT BUILDING
47123 BUSE ROAD, BLDG 2272
PATUXENT RIVER, MD 20670-1547

15 September 2008

LETTER OF PROMULGATION

1. The Naval Air Training and Operating Procedures Standardization (NATOPS) Program is a positive approach toward improving combat readiness and achieving a substantial reduction in the aircraft mishap rate. Standardization, based on professional knowledge and experience, provides the basis for development of an efficient and sound operational procedure. The standardization program is not planned to stifle individual initiative, but rather to aid the Commanding Officer in increasing the unit's combat potential without reducing command prestige or responsibility.
2. This manual standardizes ground and flight procedures but does not include tactical doctrine. Compliance with the stipulated manual requirements and procedures is mandatory except as authorized herein. In order to remain effective, NATOPS must be dynamic and stimulate rather than suppress individual thinking. Since aviation is a continuing, progressive profession, it is both desirable and necessary that new ideas and new techniques be expeditiously evaluated and incorporated if proven to be sound. To this end, Commanding Officers of aviation units are authorized to modify procedures contained herein, in accordance with the waiver provisions established by OPNAV Instruction 3710.7, for the purpose of assessing new ideas prior to initiating recommendations for permanent changes. This manual is prepared and kept current by the users in order to achieve maximum readiness and safety in the most efficient and economical manner. Should conflict exist between the training and operating procedures found in this manual and those found in other publications, this manual will govern.
3. Checklists and other pertinent extracts from this publication necessary to normal operations and training should be made and carried for use in naval aircraft.

A handwritten signature in black ink, appearing to read "S. R. Eastburg", is positioned above the printed name and title.

S. R. EASTBURG
Rear Admiral, United States Navy
By direction of
Commander, Naval Air Systems Command



CHAPTER 1

The Aircraft

1.1 AIRCRAFT DESCRIPTION

1.1.1 Meet The Hornet. The F/A-18A/C Hornet is a single-place fighter/attack aircraft built by McDonnell Douglas Aerospace. See figure 1-1 for general arrangement and Cockpits Foldout section for cockpit arrangement. It is powered by two General Electric F404-GE-400 or F404-GE-402 (enhanced performance) turbofan engines with afterburner. The aircraft features a variable camber mid-wing with leading edge extensions (LEX) mounted on each side of the fuselage from the wing roots to just forward of the windshield. The twin vertical stabilizers are angled outboard 20° from the vertical. The wings have hydraulically actuated leading edge and trailing edge flaps and ailerons. The twin rudders and differential stabilators are also hydraulically actuated. The speed brake is mounted on the top side of the aft fuselage between the vertical stabilizers. The pressurized cockpit is enclosed by an electrically operated clam shell canopy. An aircraft mounted auxiliary power unit (APU) is used to start the engines. On the ground, the APU may be used to supply air conditioning or electrical and hydraulic power to the aircraft systems.

1.1.2 Aircraft Dimensions. The approximate dimensions of the aircraft are as follows:

Span (Wings Spread) with missiles	40 feet 5 inches
without missiles	37 feet 6 inches
Span (Wings Folded)	27 feet 6 inches
Length	56 feet
Height (To Top of Fins)	15 feet 3 inches
Height (To Top of Closed Canopy)	10 feet 6 inches

1.1.3 Aircraft Gross Weight. Basic aircraft gross weight varies from 24,000 to 25,000 pounds. Refer to applicable DD 365F for accurate aircraft weight.

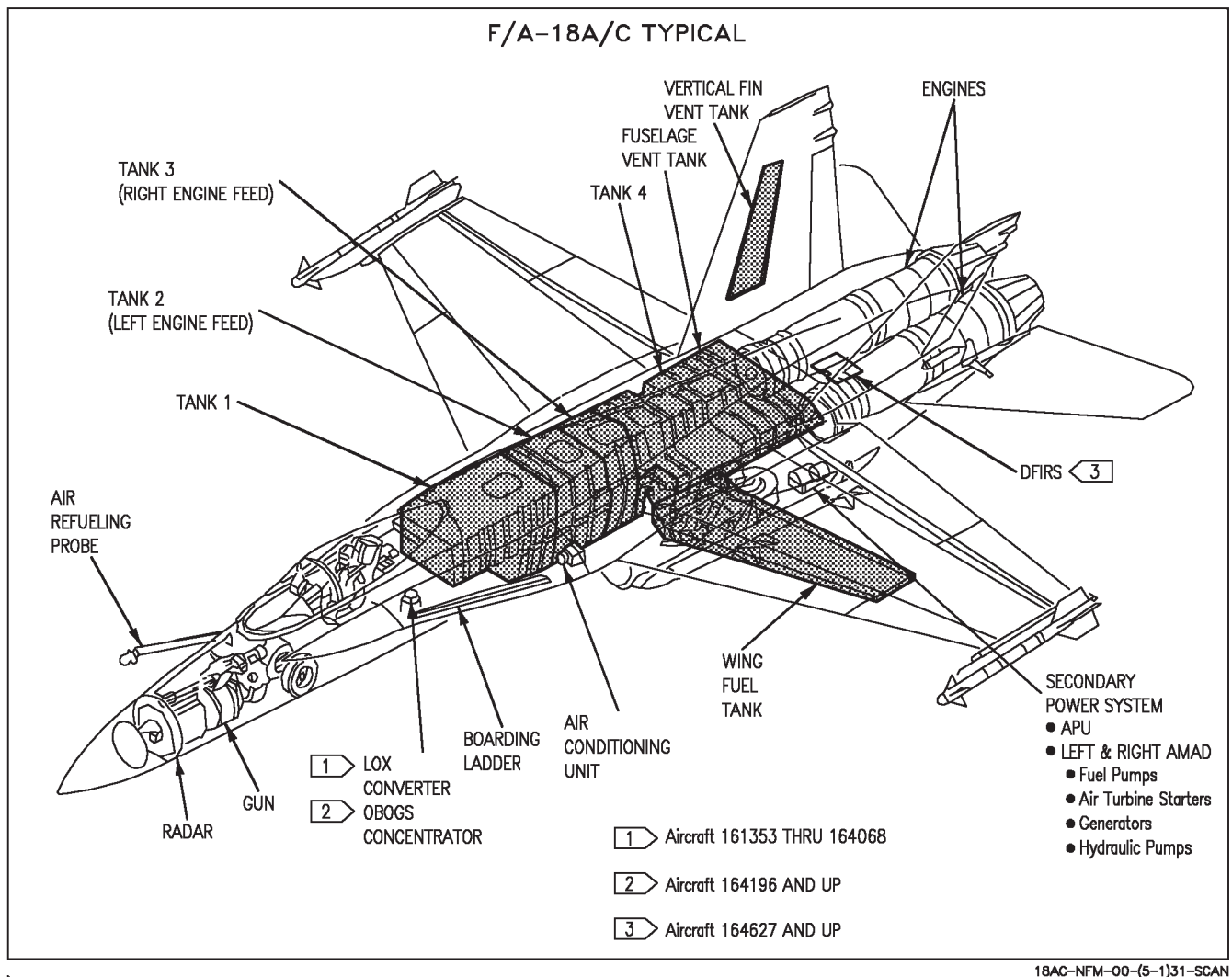


Figure 1-1. General Arrangement (F/A-18A/C)

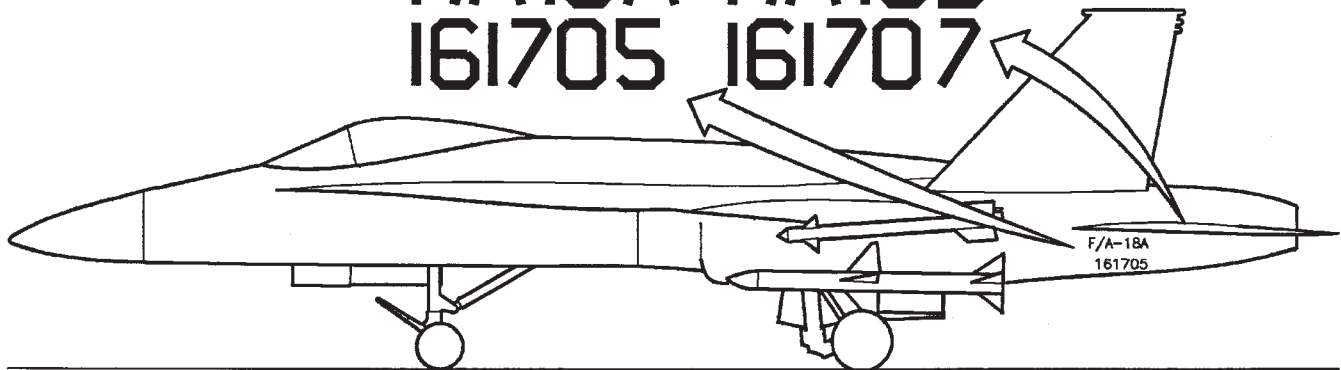
1.1.4 Mission. The aircraft has an all-weather intercept, identify, destroy, and ground attack capability. Air-to-air armament normally consists of AIM-9, AIM-7, and AIM-120 missiles and a 20 mm gun. Various air-to-ground stores may be carried. Mission range may be extended with the addition of up to three external fuel tanks.

1.2 BLOCK NUMBERS

See figure 1-2 for block numbers which correspond to aircraft serial numbers (BUNO).

F/A-18A F/A-18B

161705 161707



F/A-18A		F/A-18B	
LOT 4	BLOCK 5 (3) 161353, 161358, 161359	LOT 4	BLOCK 5 (4) 161354 thru 161357
	BLOCK 6 (8) 161361 thru 161367 161519		BLOCK 6 (1) 161360
	BLOCK 7 (9) 161520 thru 161528		BLOCK 8 (4) 161704, 161707, 161711, 161714
LOT 5	BLOCK 8 (10) 161702, 161703, 161705, 161706, 161708, 161709, 161710, 161712, 161713, 161715	LOT 5	BLOCK 9 (4) 161719, 161723, 161727, 161733
	BLOCK 9 (17) 161716, thru 161718, 161720 thru 161722, 161724 thru 161726, 161728 thru 161732, 161734 thru 161736		BLOCK 10 (3) 161740, 161746, 161924
	BLOCK 10 (23) 161737 thru 161739, 161741 thru 161745, 161747 thru 161761		BLOCK 11 (3) 161932, 161938, 161943
LOT 6	BLOCK 11 (17) 161925 thru 161931, 161933 thru 161937, 161939 thru 161942, 161944	LOT 6	BLOCK 12 (1) 161947
	BLOCK 12 (20) 161945, 161946, 161948 thru 161965		BLOCK 14 (3) 162402, 162408, 162413
	BLOCK 13 (22) 161966 thru 161987		BLOCK 15 (2) 162419, 162427
LOT 7	BLOCK 14 (18) 162394 thru 162401, 162403 thru 162407, 162409 thru 162412, 162414	LOT 7	BLOCK 17 (3) 162836, 162842, 162850
	BLOCK 15 (28) 162415 thru 162418, 162420 thru 162426, 162428 thru 162444		BLOCK 18 (4) 162857, 162864, 162870, 162876
	BLOCK 16 (33) 162445 thru 162477		BLOCK 19 (1) 162885
LOT 8	BLOCK 17 (24) 162826 thru 162835, 162837 thru 162841, 162843 thru 162849, 162851, 162852	LOT 8	BLOCK 20 (3) 163104, 163110, 163115
	BLOCK 18 (25) 162853 thru 162856, 162858 thru 162863, 162865 thru 162869, 162871 thru 162875, 162877 thru 162881		BLOCK 21 (1) 163123
	BLOCK 19 (27) 162882 thru 162884, 162886 thru 162909		BLOCK 22 (0)
LOT 9	BLOCK 20 (24) 163092 thru 163103, 163105 thru 163109, 163111 thru 163114, 163116 thru 163118	LOT 9	
	BLOCK 21 (26) 163119 thru 163122, 163124 thru 163145		
	BLOCK 22 (30) 163146 thru 163175		

18AC-NFM-00

18AC-NFM-00-(3-1)17-CAT1

Figure 1-2. Block Numbers (Sheet 1 of 3)

F/A-18C

LOT 10

BLOCK 23 (23)

163427 thru 163433,
163435,
163437 thru 163440,
163442 thru 163444,
163446,
163448 thru 163451,
163453, 163455,
163456

BLOCK 24 (21)

163458, 163459,
163435 thru 163463,
163465 thru 163467,
163469 thru 163471,
163473,
163475 thru 163481,
163483 thru 163485,

BLOCK 25 (17)

163487,
163489 thru 163491,
163493 thru 163496,
163498, 163499,
163502 thru 163506,
163508, 163509

LOT 11

BLOCK 26 (25)

163699,
163701 thru 163706,
163708 thru 163719,
163721 thru 163726

BLOCK 27 (26)

163727 thru 163733,
163735 thru 163748,
163750 thru 163754

BLOCK 28 (25)

163755 thru 163762,
163762 thru 163770,
163772 thru 163777,
163779 thru 163782,

LOT 12

BLOCK 29 (20)

163985, 163987,
163988, 163990,
163992, 163993,
163995, 163996,
163998 thru 164000,
164002 thru 164004,
164006 thru 164008,
164010, 164012,
164013

BLOCK 30 (16)

164015, 164016,
164018, 164020,
164021, 164023,
164025, 164027,
164029 thru 164031,
164033, 164034,
164036, 164037,
164039

BLOCK 31 (18)

164041, 164042,
164044, 164045,
164047, 164048,
164050, 164052,
164054, 164055,
164057, 164059,
164060, 164062,
164063, 164065,
164066, 164067

LOT 13

BLOCK 32 (17)

164197,
164199 thru 164202,
164204 thru 164206,
164208 thru 164210,
164212 thru 164215,
164217, 164218

BLOCK 33 (23)

164220 thru 164223,
164225 thru 164227,
164229 thru 164236,
164234 thru 164236,
164238 thru 164240,
164242 thru 164244,
164246 thru 164248

BLOCK 34 (24)

164250 thru 164253,
164255 thru 164258,
164260 thru 164262,
164264 thru 164266,
164268 thru 164271,
164273 thru 164278

LOT 14

BLOCK 35 (22)

164627 thru 164648

BLOCK 36 (11)

164654, 164655,
164657, 164658,
164660, 164661,
164663, 164664,
164666, 164668,
164669

BLOCK 37 (13)

164671, 164673,
164675, 164676,
164678, 164680,
164681, 164682,
164684, 164686,
164687, 164689,
164691

LOT 15

BLOCK 38 (12)

164693,
164695 thru 164698,
164700, 164701,
164703, 164704,
164706 thru 164708

BLOCK 39 (12)

164709, 164710,
164712, 164713,
164715, 164716,
164718 thru 164722,
164724

BLOCK 40 (12)

164725, 164727,
164728, 164730,
164731 thru 164734
164736, 164737,
164739, 164740

F/A-18D

LOT 10

BLOCK 23 (8)

163434, 163436,
163441, 163445,
163447, 163452,
163454, 163457

BLOCK 24 (8)

163460, 163464,
163468, 163472,
163474, 163479,
163482, 163486

BLOCK 25 (7)

163488, 163492,
163497, 163500,
163501, 163507,
163510

LOT 11

BLOCK 26 (3)

163700, 163707,
163720

BLOCK 27 (2)

163734, 163749

BLOCK 28 (3)

163763, 163771,
163778

LOT 12

BLOCK 29 (10)

163986, 163989,
163991, 163994,
163997, 164001,
164005, 164009,
164011, 164014

BLOCK 30 (10)

164017, 164019,
164022, 164024,
164026, 164028,
164032, 164035,
164038, 164040

BLOCK 31 (10)

164043, 164046,
164049, 164051,
164053, 164056,
164058, 164061,
164064, 164068

LOT 13

BLOCK 32 (7)

164196, 164198,
164203, 164207,
164211, 164216,
164219

BLOCK 33 (7)

164224, 164228,
164233, 164237,
164241, 164245,
164249

BLOCK 34 (6)

164254, 164259,
164263, 164267,
164272, 164279

LOT 14

BLOCK 35 (0)

BLOCK 36 (10)

164649 thru 164653,
164656, 164659,
164662, 164665,
164667

BLOCK 37 (10)

164670, 164672,
164674, 164677,
164679, 164683,
164685, 164688,
164690, 164692

LOT 15

BLOCK 38 (4)

164694, 164699,
164702, 164705

BLOCK 39 (4)

164711, 164714,
164717, 164723

BLOCK 40 (4)

164726, 164729,
164735, 164738

Figure 1-2. Block Numbers (Sheet 2 of 3)

F/A-18C		F/A-18D	
LOT 16	LOT 19	LOT 16	LOT 19
BLOCK 41 (9)	BLOCK 50 (24)	BLOCK 41 (9)	BLOCK 50 (0)
164865, 164867,	165207 thru 165230	164866, 164868,	LOT 20
164869, 164871,	LOT 20	164870, 164872	BLOCK 51 (8)
164873, 164875	BLOCK 51 (10)	164874, 164876,	165409 thru 165416
164877, 164879,	165399 thru 165408	164878, 164880	LOT 21
164881	LOT 21	164882	BLOCK 52 (14)
BLOCK 42 (12)	BLOCK 52 (1)	BLOCK 42 (3)	165527 thru 165532
164883, 164885,	165526	164884, 164886,	165680 thru 165687
164887, 164889,		164888	
164890, 164891,		BLOCK 43 (2)	
164892, 164893,		164898, 164901,	
164894, 164895,		LOT 17	
164896, 164897,		BLOCK 44 (8)	
BLOCK 43 (13)		164945, 164947,	
164899, 164900,		164949, 164951,	
164902, 164903,		164953, 164955,	
164904, 164905,		164957, 164959,	
164906, 164907,		BLOCK 45 (6)	
164908, 164909,		164961, 164963,	
164910, 164911,		164965, 164967,	
164912		164969, 164971	
LOT 17		BLOCK 46 (0)	
BLOCK 44 (7)		LOT 18	
164946, 164948,		BLOCK 47 (0)	
164950, 164952,		BLOCK 48 (0)	
164954, 164956,		BLOCK 49 (0)	
164958			
BLOCK 45 (12)			
164960, 164962,			
164964, 164966,			
164968, 164970,			
164972, 164973,			
164974, 164975,			
164976, 164977			
BLOCK 46 (15)			
164978, 164979,			
164980, 164981,			
164982, 164983,			
164984, 164985,			
164986, 164987,			
164988, 164989,			
164990, 164991,			
164992			
LOT 18			
BLOCK 47 (12)			
165171 thru 165182			
BLOCK 48 (12)			
165183 thru 165194			
BLOCK 49 (12)			
165195 thru 165206			

Figure 1-2. Block Numbers (Sheet 3 of 3)