

Indian Head Division  
Naval Surface Warfare Center  
Indian Head, MD 20640-5035

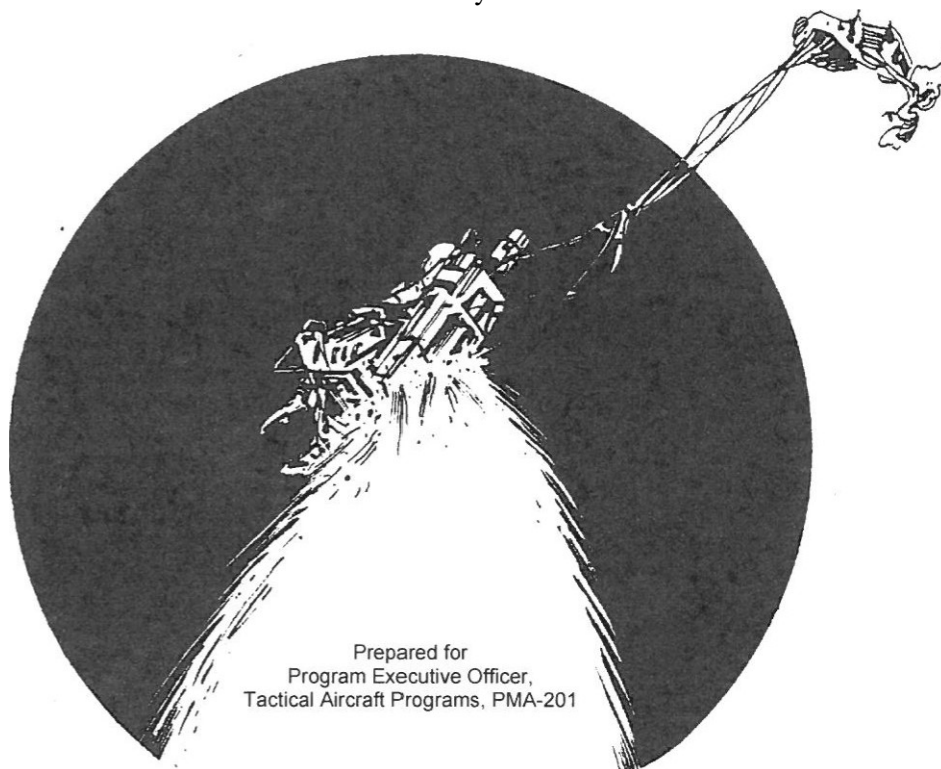
IHSP 03-486  
31 January 2003

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# LOGISTICS MANAGEMENT REPORT FOR U.S. NAVY PROPELLANT- ACTUATED DEVICES (PAD)

M.P. Audiey



Prepared for  
Program Executive Officer,  
Tactical Aircraft Programs, PMA-201



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stocks, to detail the

This report is prepared to summarize the status of propellant-actuated device logistics matters pertaining to (PAD) support given or required for aircraft escape system changes, and to S. Navy a reference source highlight other PAD logistics support and acquisition management. The subject general report also serves as PAD information.

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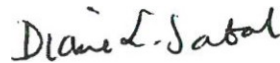
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## FOREWORD

The Indian Head Division, Naval Surface Warfare Center, Indian Head, MD, is the cognizant field activity (CFA) for U.S. Navy propellant-actuated devices (PAD). The PAD Engineering Division (Code 5 10) at Indian Head is delegated the responsibility of maintenance engineering for PAD devices by PEO (W) PMA-201. The logistics management report is prepared by Mike Audley (Code 51 1 OH) to summarize the status of Navy PAD stocks, detail the logistics support given or required for aircraft escape system changes, and highlight other matters pertaining to Navy PAD logistics support and acquisition management. The subject report also serves as a reference source for general Navy PAD information.

Anyone desiring to make inquiries about the material covered herein or to receive subsequent editions of this semiannual report should contact Mike Audley (Code 51 1 OH), DSN 354-2105 or commercial line 301-744-2105.



Diane L. Sabal  
Manager, PAD Branch

Approved and released by: e—P/L.3 

C.A. Pfleegor  
Director, AEPS/PAD Engineering Division  
IHsp

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## INTEGRATED LOGISTICS SYSTEM NOTES

### NAVAIR 11-100-1.1-CD Electronic Technical Manual

Basic Issued Dtd 1 February 2001, IRAC 10 Dtd 23 June 00, IRAC 12 Dtd 6 October 00, IRAC 13 Dtd 21 November 2000, IRAC 14 Dtd 20 December 2000, IRAC 15 Dtd 25 June 2001, IRAC 16 Dtd 24 July 2001, IRAC 17 Dtd 1 August 2001, IRAC 18 Dtd 1 1 September 2001, IRAC 19 Dtd 17 January 2002, IRAC 20 Dtd 29 January 2002, IRAC 21 Dtd 7 March 2002, IRAC 22 Dtd 28 June 2002, IRAC 23 Dtd 26 July 2002, IRAC 24 Dtd 18 September 2002, IRAC 25 Dtd 08 October 2002, IRAC 26 Dtd 29 October 2002.

### Production Lot Designation Change

All assets now entering the stock system will have ammunition lot numbers per MIL-STD- 1 168. An illustration is given below:

IHM01A002-OO 1

a b c d e

a Manufacturer's identification symbol b Two-digit numeric code identifying the year of production of the oldest propellant batch used in the propellant actuated device (PAD) lot c Single alpha code signifying the month of production of the oldest propellant batch used in the PAD lot d Lot interfix number (controlled by Indian Head Division, Naval Surface Warfare Center, Indian Head, MD 20640-5035) e Lot sequence number.

### PAD Spares Policy

Because PAD assets are limited and are not allocated items, refer to NAVSURFWARCENDIV Indian Head Naval Message 121339Z October 2000 for the Management Policy on CAD/PAD.

### Corrosion

The service life for PAD devices is determined by an extensive type-life and ordnance evaluation test program. Corrosion is considered to be a maintenance discrepancy reportable via a safety report or quality deficiency report in accordance with OPNAVINST 8600.2. Corrosion is not a criterion for reducing the service life of an entire lot or specific type of PAD device, but should be reported on a case-by-case basis.



## PAD INVENTORY

The following section contains information concerning the Navy PAD devices utilized in U.S. Navy and Marine Corps aircraft. Each aircraft is reported separately. The PAD devices are listed under their respective ejection seat configurations. In general, each PAD device is identified as to national stock number, Department of Defense identification code/Navy ammunition logistics code (DODIC[NALC]), service life, and quantity per aircraft. The serviceable inventory is reported, with both production lot quantities and quantities per lot installed in aircraft. Quantities installed in aircraft are from the CAD/PAD Traceability System (CATS). These inventories of installed assets conducted in cooperation with type commanders and aircraft manufacturers are compiled at Indian Head. Lot quantity figures indicate the amount delivered by a contractor for Navy use/Navy stock.

The following color code applies to each lot table per aircraft type:

Red = Lot expiring in the next 6 months.

Dark Red = Lot that has expired in last 6 months.

Blue = Lot is on a world-wide service life extension.

Green = A new mod change and affected lots from that change

Violet = The service life of this unit has been increased since we last published this report.

## Propellant-Actuated Devices

[As of 31 January 2003]

PAD device	NSN	DODIC	Series aircraft	No. per aircraft	Service life (mo/yr)
Rocket Catapults					
Mk 12 Mod 1 IOA2120/10 Mk 4J2156/13	<sup>1</sup> 1377-00-276- 16 Mod 1 <sup>2</sup> 1377-	01-040-	2364MC77OV- 9324MD72TA-		
Mk 18 Mod	0 <sup>1</sup> 1377-00-250-		S-3B4156/13		
0206M941TQC2120/10 7777MS15F_5E1120/10	CKU-		7A121377-00-	125-	
F_5F2120/10 T-38A2120/10					
Man/Seat Separators					
Mk82 <sup>2</sup>	ModO 1377-00-	119-2022M9281192/16			
Mk 82 Modi 1377-01-	412-	S-3B2192/16 6530MU76 TA-4J1108/9 S-3B2108/9			
Mk90ModO 1377-00-	201-	9554MC51 S-3B2192/16			
Mk 90 Mod	1377-01412-6462MU75		S-3B2108/9		
Yaw Thrusters					
Mk 83 Mod	0 <sup>2</sup> • <sup>3</sup> 1377-00-119-2031	M929S-	3B284/7		
Mk 85	Mod1377-00-119Q045	M932S-	3B284/7		
Vernier					
Mk 84 Mod 2 <sup>2</sup> • <sup>4</sup>	1377-01-199-8315	MF57	1 s-3B	4	156/13
Seatback Rocket					
Mk 79 Mod 1/2 <sup>1</sup> • <sup>4</sup> 1377-01-	069-1787	MF21	AV-8B2132/11		
	TAV-8B4132/11				
WORD/Drogue Assembly					
Mk 113 Mod 0/1 <sup>2</sup> • <sup>4</sup>	1377-01-149-		3516MG67AV-8B	196/8	
			TAV-8B	296/8	
Catapult Cartridge					
Mk 205 Mod	1/2 <sup>4</sup> 1377-01-138-3829XW36		AV-8B96/8		
		TAV-8B		296/8	
Underseat Rocket Motor					

Mk 74 Mod	0 <sup>5</sup> 1377-00-181-	9532M572NF-14AJB1240/20		
Mk 74 Mod 1	<sup>1</sup> 1377-01-246-	5282M572 F_14AjB, NF-		
14A/B1240/20	Mk 75 Mod	0 <sup>5</sup> 1377-00-181-9533M573 F_	14AJB ,	N F-
14A/B240/20	Mk 75 Mod 1	<sup>1</sup> 1377-01-246-5283M573NF-		
14A/B240/20	Mk 86 Mod	0 <sup>5</sup> 1377-00-201-9543M938 EA-		
6B2240/20 Mk	86 Mod I <sup>1</sup> 1377-	01-246-5286M938 EA-		
6B2240/20 Mk	87 Mod 0 <sup>5</sup> 1377-	00-201-9545M939 EA-		
6B1240/20 Mk	87 Mod 1 <sup>1</sup> 1377-	01-246-5287M939 EA-		
6B1240/20 Mk	88 Mod 0 <sup>5</sup> 1377-	00-201-9533M940 EA-		
6B1240/20 Mk	88 Mod 1 <sup>1</sup> 1377-	01-246-5288M940 EA-		
6B1240/20				

Mk 92 Mod 1 <sup>1</sup>1377-01-036-8514M933 QF4N, QF-4S2192/16 Mk 100 Mod 0<sup>5</sup>1377-01-039-2927MD68 FA-18AJC/B/DI216/18

See footnotes at end of table.

### Proellant-Actuated Devices—Continued

PAD device	NSN	DODIC	Series aircraft	No. per aircraft	Service life (mo/yr)
Mk 101 Mod 0 <sup>5</sup>	1377-01-039-2928	MD69			
Mk 123 Mod 0 <sup>25</sup>	1377-01-246-5280	MT30	FA-18B/D/E		216/18
			F_14D		180/15
Mk 124 Mod	1377-01-246-5281	MT31	18 DIF	1	180/15
			T-45A/C	1	180/15
			F_14D	1	180/15
			FA-18C/D/E/F	1	180/15
			T-45AJC	1	180/15
Canopy Remover Rocket Motor					
Mk 109 Mod 0 <sup>24</sup>	1377-01-101-1443	MF56FA-			18A/C/B/D/E/F2132/11
Mk 109 Mod 1 <sup>24</sup>	1377-01-454-9321	SS67FA-			18A/C/B/D/E/F2132/11
Rocket Motor Divergence					
Mk 121 Mod 0 <sup>2,3</sup>	1377-01-242-8859	MT28	I TAV-8B	4	84/7
Parachute Deployment Rocket Motor					
Mk 122 Mod	1377-01-246-5279	MT29	F-14D	2	84/676
			FA-18C/D/E/F	2	84176
			T-45A/C	2	84176
					120/10

<sup>1</sup>NAVSURFWARCENDIV, Indian Head (IH).<sup>2</sup>

<sup>1</sup>Universal Propulsion Company (UPC).

<sup>3</sup>

Pacific Scientific.

<sup>4</sup>alley Defense Systems (TAC).

<sup>5</sup>

Martin-Baker Aircraft Co., Ltd. (MBA).

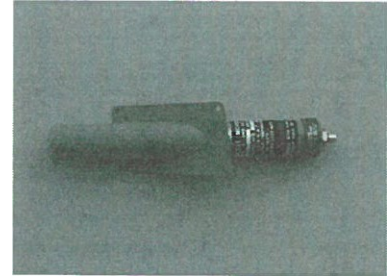
<sup>6</sup>All lots manufactured in 1998 and after are extended to 120/10; all others remain 84/7.

### TA-4J AIRCRAFT

## Douglas ESCAPAC IG-3 Ejection Seats

### 1. Rocket Motor Mk 82 Mod 0/1 (Man/Seat Separator, Left)

- a. NSN: Mod 0 1377-00-119-2022/Mod 1 1377-01-412-6530
- b. DODIC: M928/MU76
- c. Service life: Mod 0: 192 months (16 years); Mod 1: 108 months (9 years)
- d. Rocket motor WUC: Mod 0 97D11/Mod 1 97D12
- e. Two per TA-4J aircraft.



Lot No.	Lot quantity	T-4J	Total units installed	Service life expiration date
UPC93B001-021	391	10	10	February 2009
UPC94COO 1-022	25	0	0	March 2010
UPC99F001-003A2	10	0		June 2008
UPCOOE001-0042	90	0		May 2009
IHMOOB002-0062		0		February 2010
Total installed:		10		
Grand total installed:			10	

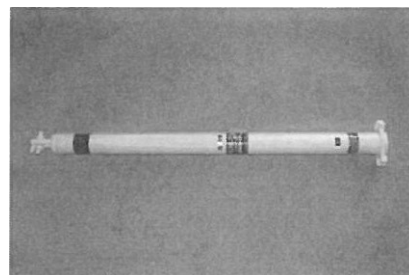
#### ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. These lots of Mk 82 Mod 1 Man/Seat Separator Rocket Motors can be used in all applications in which the Mod 0 unit is currently being used. The Mod 1 is a one-for-one exchange with the Mk 82 Mod 0 (M928) unit. Mod 0 units will still be issued until stock is exhausted.
3. Indian Head has changed its manufacturer's identification symbol from IH to IHM.
4. The following lot has expired since the last publication of this report:  

UPC86K001-017                      October 2002
5. The next lot scheduled to expire will expire in February 2009.
6. We have increased the service life of the Mk 82 Mod 1 (MU76) Man/Seat Separator Rocket Motor from 84 months (7 years) to 108 months (9 years).
7. We have not received any Mk 82 Mod 0 (M928) conventional ordnance deficiencies or Els on the TA-4 aircraft since last publication of this report.

## 2. Rocket Catapult Mk 16 Mod 1

- a. NSN: 1377-01-040-9324
- b. DODIC: MD72
- c. Service life: 156 months (13 years)
- d. Rocket motor WUC: 97D44
- e. Two per TA-4 series aircraft.



Lot No.	Lot quantity	TA-4J	Total units installed	Service life expiration date
UPC90B004-026	279	3	3	February 2003
UPC90C004-027	279	4	4	March 2003
UPC90H004-028	69		0	August 2003
UPC93B004-031	14	2	2	February 2006
UPC97BOO I -032	7		0	February 2010
UPC99J001-034	173		0	September 2012
UPC99L001-035	183	5	5	November 2012
Total installed:		14		
Grand total installed:			14	

## ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. The following lots have expired since the last publication of this report:
 

UPC89G003-021	July 2002
UPC89G003-022	July 2002
UPC89K003-023	October 2002
UPC89M004-025	December 2002
3. The next lot scheduled to expire will expire in February 2003.
4. We have not received any Mk 16 Mod I (MD72) conventional ordnance deficiencies or Els on the TA-4 aircraft since last publication of this report.

**AVITAV-8B AIRCRAFT**

**Stencel SJU-4A AV-8B**

## Stencil TAV-8B SJU-13/A Fwd, SJU-14A Aft

### 1. Seatback Rocket Motor Mk 79 Mod 1/2

- a. NSN: 1377-01-069-1787
- b. DODIC: MF21
- c. Service life: 132 months (11 years)
- d. Rocket motor WUC: 97DIM
- e. Two per AV-8B aircraft, four per TAV-8B aircraft.



Lot No.	Lot quantity	AV-8B	NAV-8B	TAV-8B	units installed	expiration date
TAC92H001-055	88		o		0	August 2003
TAC93L001-056	18	2	o	0	2	November 2004
TAC97D001-001	135	57		20	77	April 2008
TAC97J002-001	171	124	2	20	146	September 2008
TAC99H002-0022	261	29	0	6	35	August 2010
IH-98A003-002	110	34	0	16	50	January 2009
IH-99M002-003	50	2	o		2	December 2010
TAC00L002-0032	30	o	o	0	o	November 2011
TAC01E002-0042	80		0	o	0	May 2012
TAC00E002-0052	16	0		o	o	May 2012
Total installed:		248	2	62		
Grand total installed:					312	
					Total	
						Service life

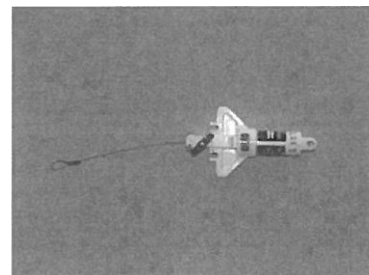
### ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).

2. NSWC IHDIV has qualified and released a Mk 79 Mod 2 (MF21) Seatback Rocket Motor. This **new** unit can be used in all applications in which the Mod 1 unit is currently being used. The Mod 2 is a one-for-one exchange with the Mk 79 Mod 1 (MF21) unit.
3. No lots have expired since the last publication of this report.
4. The next lot scheduled to expire will expire in August 2003.
5. We have not received any Mk 79 Mod I (MF21) conventional ordnance deficiencies or Els on the AV-8 aircraft since the last publication of this report.

2. WORD Rocket Motor/Drogue Release Assembly Mk 1 13 Mod 0/1

- a. NSN: 1377-01-149-3516
- b. DODIC: MG67
- c. Service life: 96 months (8 years)
- d. Rocket motor WUC: 97D3C
- e. One per AV-8B aircraft, two per TAV-8B aircraft.



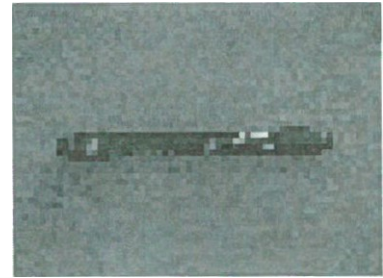
Lot No.	Lot quantity	AV-8B	NAV-8B	TAV-8B	Total units installed	Service life expiration date
TAC98M003-0012	64	8	0	0	8	December 2006
UPC99DOO1-001	237	128		29	159	April 2007
UPCOOGOO 1-002	32	0		0	0	July 2008
TACOOJ004-0032	30	0	0	0	0	September 2008
Total installed:		129		29		
Grand total installed:					167	

ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. NSWC IHDIV has qualified and released a Mk 113 Mod 1 (MC,67) WORD Rocket Motor/Drogue Release Assembly. This new unit can be used in all applications in which the Mod 0 unit is currently being used. The Mod 1 is a one-for-one exchange with the Mk 113 Mod 0 (MG67) unit.
3. No lots have expired since the last publication of this report.
4. The next lot scheduled to expire will expire in December 2006.
5. We have not received any Mk 1 13 Mod 0 (MG67) conventional ordnance deficiencies or Els on the AV-8 aircraft since the last publication of this report.

## 3. Catapult Cartridge Mk 205 Mod 1/2

- a. NSN: 1377-01-138-3829
- b. DODIC: XW36
- c. Service life: 96 months (8 years)
- d. Rocket motor WUC: 97D34
- e. One per AV-8B aircraft, two per TAV-8B aircraft.



Lot No.	Lot quantity	AV-8B	NAV-8B	TAV-8B	Total units installed	Service life expiration date
TAC95G001-002	112	23		3	26	July 2003
TAC95J00 1-003	69	19			19	September 2003
TAC96A001-004	36	10	0	17	27	January 2004
TAC98M002-0012	77	29		1	30	December 2006
TAC98M002-0022	50	33	1	5	39	December 2006
TACOOB002-003A2	60	3	0	0	3	February 2008
TACOI B002-004 <sup>2</sup>	126	0	0			February 2009
Total installed:		117	1	26		
Grand total installed:						

## ILS Notes:

- Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
- NSWC IHDIV has qualified and released a Mk 205 Mod 2 (XW36) Catapult Cartridge. This new unit can be used in all applications in which the Mod 1 unit is currently being used. The Mod 2 is a one-for-one exchange with the Mk 205 Mod I (XW36) unit.
- No lots have expired since the last publication of this report.
- The next lot scheduled to expire will expire in July 2003.
- We have not received any Mk 205 Mod I (XW36) conventional ordnance deficiencies or Els on the AV-8 aircraft since the last publication of this report.

## ILS Notes:

Lot No.

Lot



quantity

ESDOOA001-0015

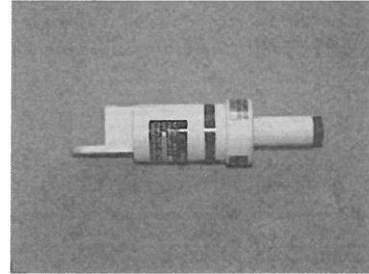
86

Total installed:

Grand total installed:

## 4. Rocket Motor Divergence Mk 121 Mod 0

- a. NSN: 1377-01-242-8859
- b. DODIC: MT28
- c. Service life: 84 months (7 years)
- d. Rocket motor WUC: 93046
- e. Four per TAV-8B aircraft.



Total

Service life

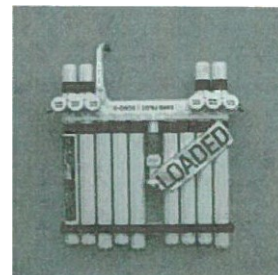
1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).

- 2. The following lot has expired since the last publication of this report: UPC95H001-019 August 2002.
- 3. The next lot scheduled to expire will expire in January 2007.
- 4. We have not received any Mk 121 Mod 0 (MT28) conventional ordnance deficiencies or Els on the TAV-8 aircraft since last publication of this report.
- 5. We have qualified Pacific Scientific (EST)) as a manufacturer.

**EA-6B AIRCRAFT**

## Martin-Baker Mk GRUEA7 Ejection Seats

1. Underseat Rocket Motor Mk 86 Mod 0 and Mod 1
  - a. NSN: 1377-00-201-9543 (Mod 0), 1377-01-246-5286 (Mod 1)
  - b. DODIC: M938 (Mod 0), M938 (Mod 1)
  - c. Service life: Mod 0: 240 months (20 years); Mod 1 : 240 months (20 years)
  - d. Rocket motor WUC: 97D3M Mod O and Mod 1
  - e. Two per aircraft (Pilot/ECMO-3).



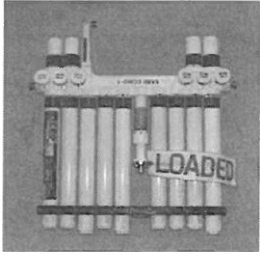
Total	Lot No.	Lot quantity	EA-6B	units installed	expiration date
	MBA84B001-013	12	9	9	February 2004
	MBA85E001-015	16	13	13	May 2005
	MBA85E001-017		21	21	May 2005
	MBA85H001-018	32	30	30	August 2005
	MBA86J00 1-021	24	20	20	September 2006
	UPC86J001-001(A) or (B)	37	20	20	September 2006
	MBA86J00IH020	27	43	43	September 2006
	MBA88B001 H023	7	2	2	February 2008
	MBA88E001-027	22	13	13	June 2008
	MBA89F001-030		14	14	June 2009
	IH-94L002-003A	76	43	43	November 2014
	Total installed:		219		
	Grand total installed:			219	
					Service life

ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
  2. The following lot has expired since the last publication of this report:  
MBA83A001-011                      January 2003
  3. The next lot scheduled to expire will expire in February 2004.
  4. We have not received any Mk 86 Mod 0/1 (M938) conventional ordnance deficiencies or Els on the EA-6B aircraft since the last publication of this report.
2. Underseat Rocket Motor Mk 87 Mod 0 and Mod 1
- a. NSN: 1377-00-201-9545 (Mod 0), 1377-01-246-5287 (Mod 1 )
  - b. DODIC: M939 (Mod 0), M939 (Mod 1 )
    - c. Service life: Mod 0: 240 months (20 years); Mod 1: 240 months (20 years)
    - d. Rocket motor WUC: 97D3N Mod O and Mod I
    - e. One per aircraft ) (ECMO- I

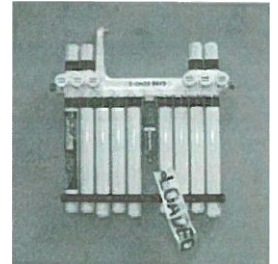
Lot No.	Lot quantity	EA-6B	units installed	expiration date
MBA84BOOI-013	6	5	5	February 2004
MBA85EOOI-015	8	7	7	May 2005
MBA85E001-017	12	9	9	May 2005
MBA85H001-018	25	23	23	August 2005
MBA86JOO I H020	21	27	27	September 2006
MBA86J001-021	12	11	11	September 2006
UPC86JOOI -001 (A) or (B)	25	7	7	September 2006
MBA88BOOI H023	5	6	6	February 2008
MBA88E001-025		0	0	May 2008
MBA88EOOI-028	10	6	6	May 2008
MBA 88HOOI H029	1			August 2008

TotalMBA88E001-030	12	7	7	May 2008
MBA89FOOI-031		0	0	June 2009
IH-94L002-003A	26	6	6	November
Total installed:		116		2014
Grand total installed:			1 16	
				Service life



## ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
  2. The following lot has expired since the last publication of this report:  
MBA83A001-011 January 2003
  3. The next lot scheduled to expire will expire in February 2004.
  4. We have not received any Mk 87 Mod 0/1 (M939) conventional ordnance deficiencies or Els on the EA-6B aircraft since the last publication of this report.
3. Underseat Rocket Motor Mk 88 Mod 0 and Mod 1
- a. NSN: 1377-00-201-9551 (Mod 0), 1377-01-246-5288 (Mod 1)
  - b. DODIC: M940 (Mod 0), M940 (Mod 1)
    - c. Service life: Mod 0: 240 months (20 years); Mod 1 : 240 months (20 years)
    - d. Rocket motor WUC: 97D3P Mod 0 and Mod 1
    - e. One per aircraft (ECMO-2).



Lot No.	Lot quantity	EA-6B	units installed	Service life expiration date
MBA84BO01-013	6	3	3	February 2004
MBA85E001-015	8	6	6	May 2005
MBA85E001-017	12	9	9	May 2005
MBA85H001-018	31	16	16	August 2005
MBA86J001-021	13	11	11	September 2006
MBA88B001H023	6	0	0	February 2008
MBA88E001025	11	11	11	May 2008
MBA 88EOO 1-027	12	6	6	May 2008
MBA89F001-030	13	7	7	May 2009
IH-94L002-003A	33	30	30	November 2014
IH-94L002-004	25	1	1	November 2014
MBAOOL002-031		13	13	November 2020
Total installed:		116		
Grand total installed:			116	
			Total	

## ILS Notes:

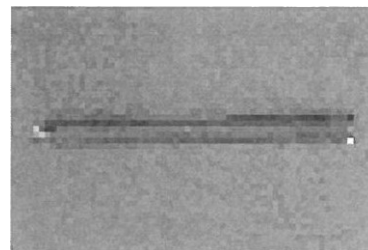
1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. The following lot has expired since the last publication of this report:  
MBA83A001-011 January 2003
3. The next lot scheduled to expire will expire in February 2004.
4. We have not received any Mk 88 Mod 0/1 (M940) conventional ordnance deficiencies or Els on the EA6B aircraft since the last publication of this report.

## F-5E/F-T-38A AIRCRAFT

Northrop Improved Ejection Seat  
Assembly Number 14-70202-505

## 1. Rocket Catapult CKU-7A

- a. NSN: 1377-00-125-7777
- b. DODIC: MS15
- c. Service life: 120 months (10 years)
- d. Rocket catapult WUC: 97ABA
- e. One per F-5E aircraft, two per F-5F aircraft, two per T-38 aircraft.



Lot No.	Lot quantity	F-5E	F-5F	T-38A	Total units installed	Service life expiration date
IH-95EOO -046	8	4	3	0	7	May 2005
IH-96HOO I -048	5		0	2	3	August 2006
IH-98FOOI -049	21	16	0	5	21	August 2006
IHMOOC001-051		10	5	7	22	March 2010
IHMOOE001-052	22		0	4	5	May 2010
Total installed:		32	8	18		
Grand total installed:					58	

## ILS Notes:

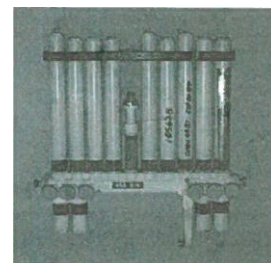
1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. No lots have expired since the last publication of this report.
3. The next lot scheduled to expire will expire in May 2005.
4. We have not received any CKU-7A (MS 1 5) conventional ordnance deficiencies or Els on the F-5 or T-38 aircraft since the last publication of this report.

## F-14A/B AND NF-14A AIRCRAFT

## Martin-Baker Mk GRU-7A Ejection Seats

## 1. Underseat Rocket Motor Mk 74 Mod 0 and Mod 1

- a. NSN: 1377-00-181-9532 (Mod 0), 1377-01-246-5282 (Mod 1)
- b. DODIC: M572 (Mod 0), M572 (Mod 1)
- c. Service life: Mod 0: 240 months (20 years); Mod 1: 240 months (20 years)
- d. Rocket motor WuC: 97DIR Mod 0 and Mod 1
- e. One each per aircraft (pilot).



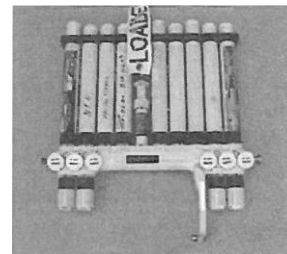
Lot No.	Lot		F-14A	F-14B	Total units installed	Service life expiration date
	quantity					
MBA84B001-013	24		3	3	6	February 2004
MBA85E001-015	18		1	5	6	May 2005
MBA85E001-017	18		1	12	13	May 2005
MBA85H001-018	126		16	18	34	August 2005
UPC86J001 -OOIA (or) B	25		1	3	4	September 2006
MBA88B001-024	15		0	9	9	February 2008
MBA88H001-026	6		2	1	3	August 2008
IH-94L002-003A	23		7	5	12	November 2014
IHM94L002-004	15		5	3	8	November 2014
Total installed:			37	62		
Grand total installed:					99	

## ILS Notes:

- Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
- The following lot has expired since the last publication of this report:  
MBA83A001-011 January 2003
- The next lot scheduled to expire will expire in February 2004.
- We have not received any Mk 74 Mod 0/1 (M572) conventional ordnance deficiencies or Els on the F-14A/B aircraft since last publication of this report.

## 2. Underseat Rocket Motor Mk 75 Mod 0 and Mod I

- NSN: 1377-00-181-9533 (Mod 0), 1377-01-246-5283 (Mod 1)
- DODIC: M573 (Mod 0), M573 (Mod 1)
- Service life: Mod 0: 240 months (20 years); Mod 1: 240 months (20 years)
- Rocket motor WUC: 97D3J Mod 0 and Mod 1
- One per aircraft (NFO).



Lot No.	Lot		F-14A	F-14B	Total units installed	Service life expiration date
	quantity					
MBA84B001-013			2	2	4	February 2004
MBA85E001-015	18		2	7	9	May 2005
MBA85E001-017	18		0	13	13	May 2005
MBA85H001-018	134		15	14	29	August 2005

UPC86J001-001A (or) B	25	4	0	4	September 2006
MBA88BOO I -024	13	0	8	8	February 2008
MBA88H001-026	5	0	2	2	August 2008
IH-94L002-003A	22	4	8	12	November 2014
IHM94L002-004	12	5	1	6	November 2014
Total installed:		34	61		
Grand total installed:				95	

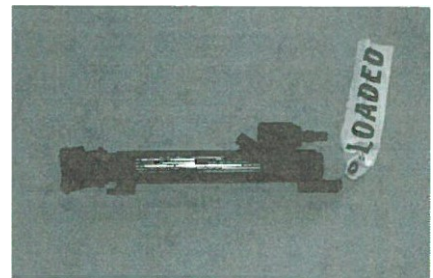
## ILS Notes:

- Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
- The following lot has expired since the last publication of this report:  
MBA83A001-011 January 2003
- The next lot scheduled to expire will expire in February 2004.
- We have not received any Mk 75 Mod 0/1 (M573) conventional ordnance deficiencies or Els on the F- 14A/B aircraft since last publication of this report.

**F-14D AND NF-14D AIRCRAFT****SJU-17/(V)3/A(Forward seat) and SJU-17/(V)4/A(Aft seat)**

## 1. Parachute Deployment Rocket Motor Mk 122 Mod 0

- NSN: 1377-01-246-5279
- DODIC: MT29
- Service life: 84 months (7 years), 120 months (10 years)
- Rocket motor WUC: 97D4A
- Two each per aircraft (pilot and MCC)).



Lot No.	Lot quantity	F-14D	Total units installed	Service life expiration date
UPC94C003-0045	229	19	19	March 2003
MBA96C003-013	49	8	8	March 2003
UPC97H003-005	192	25	25	August 2004
MBA98J004-0144	300	28	28	September 2008
MBA99J004-0164	206	4	4	September 2009
MBAAOF004-0174	257	2	2	June 2010



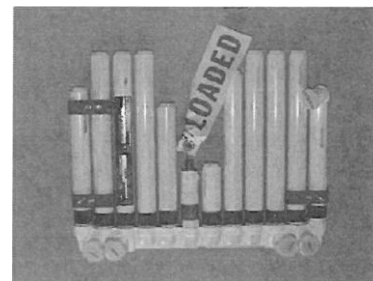
UPC01E005-0014	270		o	May 2011
Total installed:		86		
Grand total installed:			86	

## ILS Notes

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. No lots have expired since the last publication of this report.
3. The next lots scheduled to expire will expire in March 2003.
4. We have increased the service life on all lots manufactured after 1998 from 84 months (7 years) to 120 months (10 years). All other lots will remain at 84 months (7 years).
5. Indian Head has extended the service life 24 months from 84 months (7 years) to 108 months (9 years) for the following lot:  
     UPC94C003-004      March 2003
6. We have received a CODR on stirrups installed incorrectly on a Mk 122 Mod 0 (MT29) Parachute Deployment Rocket Motor (lot UPCO I E005-001). The stirrup links are making contact with the ejection seat main beam, thus making it impossible to connect the parachute withdrawal line. We have contacted the activity and requested photos. We will request that the unit be returned for an engineering investigation. We are pulling sample Condition Code "A" units from the same lot for inspection. The manufacturer has also been contacted and is in the process of verifying this condition with their x-rays.

## 2. Underseat Rocket Motor Mk 123 Mod 0 (front)

- a. NSN: 1377-01-246-5280
- b. DODIC: MT30
- c. Service life: 180 months (15 years)
- d. Rocket motor WUC: 97D4B
- e. One per aircraft (pilot).



Lot No.	Lot quantity	F-14D	Total units installed	Service life expiration date
MBA89F001-003	31	o	0	June 2004
MBA89F001-005	16	0	0	June 2004
MBA90HOO I -006	35	13	13	August 2004
MBA90HOOI-007	6		o	August 2004
MBA90KOOI-008	50	0	o	October 2004

UPC90LOOI HOO 1B	17			November 2005
MBA91J001-009	21	4	4	September 2006
UPC91 KOO I H002A	14	2	2	October 2006
MBA92C001-OIO	10	0	0	March 2006
UPC93E002H005	27		0	May 2008
MBA93F002-OI I	54	9	9	June 2008
UPC94B003H006	80	5	5	February 2009
MBA95C003-012	236	3	3	March 2010
MBA96C003-013	71	0	0	March 2011
MBA97G003-014	33	1	1	July 2012
MBA98J003-017	33		0	September 2013
MBA99H003-019	53	0	0	August 2014
MBAOI A003-020	47	0	0	January 2016
MBAO E003-024	22	0	0	May 2016
Total installed:		38		
Grand total installed:			38	

## ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. No lots have expired since the last publication of this report.
3. The next lots scheduled to expire will expire in June 2004.
4. We have increased the service life of the Mk 123 Mod 0 (MT30) Underseat Rocket Motor from 156 months (13 years) to 180 months (15 years). We issued this increase in IRAC 18, Naval message DTG 111036Z sept 01.
5. We have not received any Mk 123 Mod 0 (MT30) conventional ordnance deficiencies or Els on the F- 141) aircraft since the last publication of this report.

## ILS Notes:

Lot No.	Lot quantity	F-
MBA89F001-004	57	
MBA89F001-005	7	
MBA90HOO 1-006	68	
MBA90H001-007	36	
MBA90K001-008	91	
UPC90LOO 1B	36	

	Total Service life	MBA91J001-009	
1.	Quantity per lot reported installed in CAD/PAD Traceability System (CATS).	UPC91K001H002A	29
		UPC91K001H003	6
2.	No lots have expired since the last publication of this report.	MBA92C001-010	27
3.	The next lots scheduled to expire will expire in June 2004.	UPC93D002H004	62
4.	We have increased the service life of the Mk 124 Mod 0 (MT31) Underseat Rocket Motor from 156 months (13 years) to 180 months (15 years). We issued this increase in IRAC 18, Naval message DTG 111036Z sept 01.	MBA93F002-011	104
		UPC94C003H005	142
		MBA95C003-012	165
		MBA96C003-013	71
5.	We have not received any Mk 124 Mod 0 (MT31) conventional ordnance deficiencies or Els on the F-14D aircraft since the last publication of this report.	MBA97G003-014	70
		MBA98J003-017	66
		MBA99H003-019	84
		MBA01A003-020	76
		MBAOI E003-024	37
		Total installed:	
		Grand total installed:	

### 3. Underseat Rocket Motor Mk 124 Mod 0 (rear)

- a. NSN: 1377-01-246-5281
- b. DODIC: MT31
- c. Service life: **180 months (15 years)**
- d. Rocket motor WUC: 97D48
- e. One per F-14D and NF-14D aircraft (NFO).



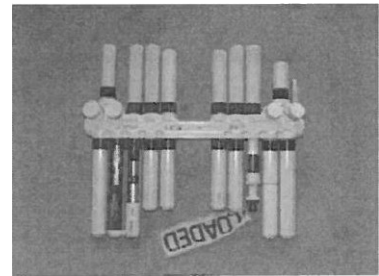
## FA-181AIBICID AIRCRAFT

Martin-Baker SJU-5/A Ejection Seat F-18 and Rear Seat of HA-18 B/D and

## SJU-6/A Ejection Seat (Front Seat of FIA-18 B/D)

## 1. Rocket Motor Mk 100 Mod O

- a. NSN: 1377-01-039-2927
- b. DODIC: MD68
- c. Service life: 216 months (18 years)
- d. Rocket motor WUC: 97D38
- e. One per F/A- 18 A/C and one per F/A-18 B/D (rear seat only).



Lot No.	Lot quantity	Service life				units installed	expiration date
		FA-18A	FA-18B	FA-18C	FA-18D		
MBA86GOOI-012	57	24		0	0	24	July 2004
MBA86GOO 1-013	47	6	5	3	0	14	July 2004
MBA86GOO 1-015	30	1	0	6	0	7	July 2004
MBA86JOOI-016	56	7	1	2	1	11	September 2004
MBA86MOOI-017	29		0	10	2	12	December 2004
MBA86JOOI-018	18		0	3	2	5	September 2004
MBA86JOOI-020	7	0	0	1		2	September 2004
MBA87K001-024	21	0		7	3	10	October 2005
MBA87K001-025	15	1	0	4		6	October 2005
MBA88B001-026	23	1	0	15	5	21	February 2006
MBA88GOOI-027	5		0	1	0	1	July 2006
MBA88BOOI-028	11	0		3		3	February 2006
MBA88G001-029	55	2	0	37	1	40	July 2006
MBA88GOOI-031	16		0	3		3	July 2006
MBA89A001-033	128	4	10	5	1	62	January 2007
MBA89B001-032	66	4	0	34	22	60	February 2007
MBA89FOO -034	8	0		4	2	6	June 2007
MBA91 BOO 1-038	66	33	7	7	1	48	February 2009
MBA93C002-040	182	47	8	7	2	64	March 2011
MBA94C003-041	46	5	0	1		7	March 2012

Total

Lot No.	Lot	Total				Service life
		FA-18A	FA-18B	FA-18C	FA-18D	
					units	expiration
					installed	date
MBA96L003-047	47	4		1	6	November 2015
MBA99M003-050	7	0	0	0	0	December 2017
Total installed:		181	32	154	45	
Grand total installed:						
Grand total installed:					412	

quantity

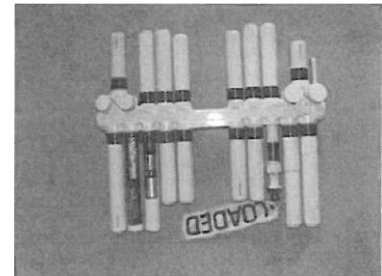
## ILS Notes:

- Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
- The following lots have expired since the last publication of this report:
 

MBA85H001-009	August 2002
MBA85H001-010	August 2002
MBA85K001-011	October 2002
- The next lot scheduled to expire will expire in July 2004.
- We have increased the service life on all lots from 204 months (17 years) to 216 months (18 years).
- We received a CODR from a fleet activity reporting that while maintenance personnel were performing an acceptance inspection, they discovered gouges. Indian Head requested this motor be returned for possible placement in its quality evaluation program.

## 2. Rocket Motor Mk 101 Mod O

- NSN: 1377-01-039-2928
- DODIC: MD69
- Service life: 216 months (18 years)
- Rocket motor WUC: 97D3A
- One per F/A- 18 (front seat only).



Lot No.	Lot	Total		Service life
		FA-18B	FA-18D	
				expiration
				date
	quantity			
MBA86GOOI-012	2	0	1	July 2004
MBA86GOO 1-013			1	July 2004
MBA86J001-020	8	2	4	September 2004
MBA86M001-017	7		2	December 2004

MBA87K001-024	2	0	2	2	October 2005
MBA87K001-025	3	0	2	2	October 2005
MBA88BOO 1-026	7		5	5	February 2006
MBA88G001-029	8	0	6	6	July 2006
MBA89AOO 1-033	25	4	3	7	January 2007
MBA89BOO 1-032	30	5	15	20	February 2007
MBA91BOO1-038	17	10	2	12	February 2009
MBA93C002-040	23	4	1	5	March 2011
MBA94C003-041	33	7	7	14	March 2012
MBA96L003-047	47	0	0	0	November 2015
MBA99M003-050	15				December 2017
Total installed:		33	51		
Grand total installed:					

## ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CA TS).
2. The following lots have expired since the last publication of this report:
 

MBA85H001-009	August 2002
MBA85K001-011	October 2002
3. The next lot scheduled to expire will expire in September 2004.
4. We have increased the service life on all lots from 204 months (17 years) to 216 months (18 years).
5. We received a CODR on the Mk 101 (MD69) Underseat Rocket Motor. During the de-arm process for 448day inspection, the technician discovered a broken lockwire. This squadron conducted an investigation to determine if the tubes had rotated. The investigation was inconclusive since rotation could not be verified because of the absence of the torque stripe. We are currently looking into the best method for incorporating torque striping on installed units. We have requested this unit be returned for potential use as a QE sample.
3. Rocket Motor Mk 109 Mod 0 and Mod I
  - a. NSN: 1377-01-101-1443 (Mod 0), 1377-01-454-9321 (Mod 1)
  - b. DODIC: MF56 (Mod 0), SS67 (Mod 1)
  - c. Service life: 132 months (11 years)
  - d. Rocket motor WUC: 97D47
  - e. Two per F/A-18.
  - f. For non-NACES FA-18 aircraft



Lot

Total

Service life

Lot No.	quantity	FA-18A	FA-18B	FA-18C	FA-18D	units installed	expiration date
UPC92B001-033	46					o	February 2003
UPC92D001-034	48	o				o	April 2003
UPC92GOO 1-035	45			0		o	July 2003
UPC92G001-036	343	95	24	106	26	251	July 2003
UPC92K001-038	49			0	0	o	October 2003
UPC93A001-039	35		0			o	January 2004
UPC93C001- March 2004			0 041 0		48	0o	0 o
UPC93JOO - September 2004			0 042 0 0			25	00 0
TAC94A002-001A		150			0	0	January 2005
UPC 94DOO I -043		60o			o	0	April 2005
UC95D001-044		290			0	o	April 2006
UPC95G001-045	27	0	0	0	0	0	July 2006
UPC95HOO 1-046	25	o				0	A ugust 2006
UPC95L001-047	20		0	0	0	0	November 2006
UPC96BOO -048	48	10	2	26	8	46	February 2007
UPC96C001-049	8					o	March 2007
UPC96G001-050	195	34	2	47	28	111	July 2007
UPC96EOOI-			0 051 0			180	o May 2007
UPC97B001- February 2008			0 053 0			40	0
UPC97G001- 2008			0 054 0			7	00 0 July
UPC97G001-055		6o				0	July 2008
UPC98BOOI -056	54			0o			February 2009
UPC99BOOI-057		120			0	0	February 2010
IH-98D001-0012	57	10	4	19	11	44	April 2009
TAC99D001-0022	250	100	10	34	20	164	April 2010
TACOOA001-0032	273	26	7	45	6	84	January 2011
TAC01H001-0052	109	2	1	3	0	6	August 2012

TAC01K001-0062	60	18		o		18	October 2012
TAC01M001-0072	1	2	o		0	2	December 2012
Total installed:		297	50	280	99		
Grand total installed:						726	

## ILS Notes:

- Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
- NSWC IHDIV has qualified and released a Mk 109 Mod 1 (SS67) Canopy Jettison Rocket Motor (C.JRM). This new unit can be used in all applications in which the Mod 0 unit is currently used. The Mod 1 is a one-for-one exchange with the Mk 109 Mod 0 (MF56) unit. Mod 0 units will still be issued until stock is exhausted.
- The following lots have expired since the last publication of this report:
 

UPC91G001-031	July 2002
UPC90K001-026	October 2002
UPC90J001-027	September 2002
UPC91J001-032	September 2002
UPC90M001-028	December 2002
- The following lot will expire within the next six months:
 

UPC92B001-033	February 2003
---------------	---------------
- We have not received any Mk 109 Mod 0/1 (MF56/SS67) conventional ordnance deficiencies or Els on the FA- 18 aircraft since the last publication of this report.

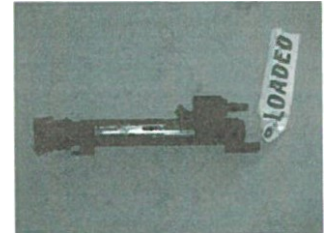


## FA-18C/D/E/F AIRCRAFT

**SJU-17/(V)2/A**FIA-18D (Forward seat) and **SJU-17/(V)1/A**FIA-18C/D (Aft seat)

## 1. Parachute Deployment Rocket Motor Mk 122 Mod 0

- a. NSN: 1377-01-246-5279
- b. DODIC: MT29
- c. Service life: 84 months (7 years), 120 months (10 years)
- d. Rocket motor WUC: 97D4A
- e. One per aircraft F/A-18C, E, two per aircraft F/A-18E, F (pilot and copilot).



Lot No.	Lot	FA-18C	FA-18D	FA-18E	FA-18F	Total	Service life
	quantity					units	expiration
						installed	date
UPC94C003-0045	229	21	11	2		34	March 2003
MBA 96003-013	49	6	2		2	11	March 2003
UPC97H003-005	192	34	25	10	11	80	August 2004
MBA98J004-0144	300	72	43	9	21	145	September 2008
MBA99J004-0164	206	42	32	14	36	124	September 2009
MBA00F004-0174	257	28	32	15	18	93	June 2010
UPC01E005-0014	270	3	10		4	17	May 2011
Total installed:		206	155	51	92		
Grand total installed:						504	

## ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. The following lot has expired since the last publication of this report:  
MBA95F003-010      June 2002
3. The next lot scheduled to expire will expire in March 2003.
4. We have increased the service life on all lots manufacture after 1998 from 84 months (7 years) to 120 months (10 years). All other lots will remain at 84 months (7 years).

5. Indian Head has extended the service life 24 months from 84 months (7 years) to 108 months (9 years) for the following lot:

UPC94C003-004      March 2003

6. We have received a CODR on stirrups installed incorrectly on a Mk 122 Mod 0 (MT29) Parachute Deployment Rocket Motors (lot UPCO I E005-001 ). The stirrup links are making contact with the ejection seat main beam, thus making it impossible to connect the parachute withdrawal line. We have contacted the activity and requested photos. We will request that the unit be returned for an engineering investigation. We are pulling sample Condition Code "A" units from the same lot for inspection. The manufacturer has also been contacted and is in the process of verifying this condition with their x-rays.

2. Underseat Rocket Motor Mk 123 Mod 0

- a. NSN: 1377-01-246-5280
- b. DODIC: MT30
- c. Service life: 180 months (15 years)
- d. Rocket motor WUC: 97D4B
- e. One per F/A-18D and F aircraft (pilot).



				Lot No.	Lot Quantity
				MBA89FOOI-003	31
				MBA 89FOOI-005	16
				MBA90HOOI -006	35
				MBA90HOOI-007	6
				MBA90K001-008	50
				UPC90LOO HOC) 1B	17
				Total	Service life
MBA91JOOI-66	September 2006	0 009	0		21
UPC91 KOO 1	October 2006	0 H002A	0		14 22
MBA92C001-OIO	10	oo			March 2007
MBA93F002-OI I	54	12	0	12	June 2008
UPC94B003H006	80	14	0	14	February 2009
MBA95C003-012	236	7		8	March 2010
MBA96C003-013	71	4	3	7	March 2011

MBA97G003-014	33	10	8	18	July 2012
MBA98J003-017	33	7	7	14	September 2013
MBA99H003-019	53	0	21	21	August 2014
MBA01A003-020	47	0	2	2	January 2016
MBA01E003-024	22	0	3	3	May 2016
Total installed:		92	45		
Grand total installed:				137	
UPC93E002H005		271			May 2008

## ILS Notes:

- Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
- No lots have expired since the last publication of this report.
- The next lots scheduled to expire will expire in June 2004.
- We have not received any Mk 123 Mod 0 (MT30) conventional ordnance deficiencies or Els on the FA-18 aircraft since last publication of this report.

## 3. Underseat Rocket Motor Mk 124 Mod 0

- NSN: 1377-01-246-5281
- DODIC: MT31
- Service life: 180 months (15 years)
- Rocket motor WUC: 97D48



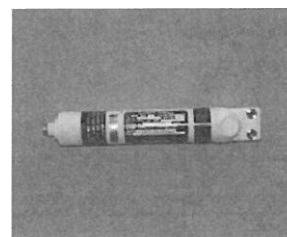
e. One per F/A-18D, and F aircraft (copilot), one per F/A-18C, E aircraft (pilot).

Lot No.	Lot quantity	Total				Service life expiration date
		FA-18C	FA-18D	FA-18E	FA-18F	
MBA89F001-004	57	3	2	0	0	June 2004
MBA89F001-005	7		0	0	0	June 2004
MBA90HOO 1-006	68	16	10	0	0	August 2005
MBA90HOO 1-007	36	8	7	0	0	August 2005
MBA90KOO 1-008	91	19	7	0	0	October 2005
UPC90L001 HOOIB	36	1	2	0	0	November 2005

MBA91J00 1-009	34	11	8	0		19	September 2006
UPC91 KOO H002A	29		2	0	0	2	October 2006
UPC91 KOO I H003	6	0	0	0	0	0	October 2006
MBA92C001-010	27	8	2	0		10	March 2007
UPC93D002H004	62	4	2	0	0	6	April 2007
MBA93F002-OI 1	104	58	7	1	1	67	June 2008
UPC94C002H005	142	23	13	0	0	36	March 2009
MBA95C003-012	165	77	7	5	1	90	March 2010
MBA96C003-013	71	7	5	0	1	13	March 2011
MBA97G003-014	70	10	12	11	10	43	July 2012
MBA98J003-017	66	3	6	6	9	24	September 2013
MBA99H003-019	84	1	0	22	1	40	August 2014
MBA01A003-020	76		0	4	5	9	January 2016
MBAOI E003-024	37		0	0	0	0	May 2016
Total installed:		249	92	49	44		
Grand total installed:						434	

## ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
  2. No lots have expired since the last publication of this report.
  3. The next lots scheduled to expire will expire in June 2004.
  4. We have not received any Mk 123 Mod 0 (MT30) conventional ordnance deficiencies or Els on the FA-18 aircraft since last publication of this report.
4. Rocket Motor Mk 109 Mod O, and Mod I
- a. NSN: 1377-01-101-1443 (Mod 0), 1377-01-454-9321 (Mod 1)
  - b. DODIC: MF56 (Mod 0), SS67 (Mod 1)
  - c. Service life: 132 months (11 years)
  - d. Rocket motor WUC: 97D47
  - e. Two per F/A-18
  - f. For NACES FA-18 Aircraft



Total                      Service life

Lot No.	Lot quantity	FA-18C	FA-18D	FA-18E	FA-18F	units installed	expiration date
UPC92B001-033		7	12	0	0	19	February 2003
UPC92D001-034	48	14			721	0	April 2003
UPC92GOO 1-					0	035	45 18 8
	026	July 2003			0		
UPC92GOO 1-036	343	10			010	0	July 2003
UPC92KOO 1-038	49	20			626	0	October 2003
UPC93A001-039	35	11	8		019		January 2004
UPC93C001-041	48	22	10		0	32	March 2004
UPC93JOO -042	25	24	1	0		25	September 2004
TAC94A002-001A	15		1		0	1	January 2005
UPC94DOOI -043	60	34	20	3	0	57	April 2005
UPC95DOOI-			0	044	29	263	0 29
	April 2006		0				
UPC95GOOI-2006			0	045		27	251 27 July
			0				
UPC95HOOI-046	25		222			25	August 2006
UPC95L001-047	20		200			20	November 2006
UPC96BOOI-048	48	0	0	0	0	0	February 2007
UPC96COOI -049	8	5	0	1	2	8	March 2007
UPC96GOOI-050	195	7	0	28	32	67	July 2007
UPC96E001-051	18	16			0	16	May 2007
UPC97B001-053	18	10	5	2	0	17	February 2008
UPC97G001-054	14	6	9	0	0	15	July 2008
UPC97G001-055	6	4		0	0	4	July 2008
UPC98B001-056	54	2	18	18	16	54	February 2009
UPC99BOOI-057	57	0	10	2	4	16	February 2010
IH-98D001-0012	57	4	0			4	April 2009
TAC99D001-0022	250	14	14	12	10	50	April 2010
	Lot					Total	Service life
Lot No.	quantity	FA-18C	FA-18D	FA-18E	FA-18F	units installed	expiration date
TACOOA001-0032	273	41	18	18	8	85	January 2011
TAC01H001-0052	109	34	6	0	6	46	August 2012
TAC01K001-0062	60	16	1	0	0	17	October 2012

Total installed:	412	154	90	80
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Grand total installed:	736
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## ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. NSWC IHDIV has qualified and released a Mk 109 Mod 1 (SS67) Canopy Jettison Rocket Motor. This new unit can be used in all applications in which the Mod 0 unit is currently used. The Mod I is a one-for-one exchange with the Mk 109 Mod 0 (MF56) unit. Mod 0 units will still be issued until stock is exhausted.
3. The following lots have expired since the last publication of this report:
 

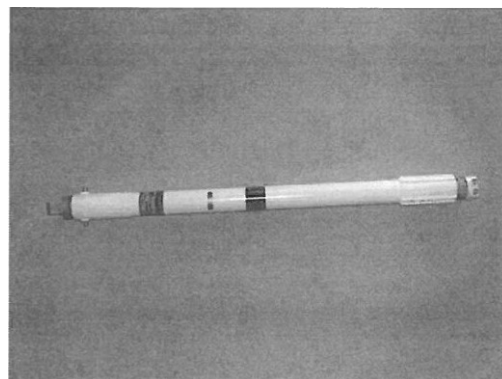
UPC91G001-031	July 2002
UPC90K001-026	October 2002
UPC90J001-027	September 2002
UPC91J001-032	September 2002
UPC90M001-028	December 2002
4. The following lot will expire within the next six months:
 

UPC92B001-033	February 2003
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5. We have not received any Mk 109 Mod 0/1 (MF56/SS67) conventional ordnance deficiencies or Els on the FA-18 aircraft since last publication of this report.

**OV-IOA AIRCRAFT**

**North American LW-3B  
Ejection Seats**

1. Rocket Catapult Mk 12 Mod 1
  - a. NSN: 1377-00-276-2364
  - b. DODIC: MC77
  - c. Service life: 120 months (10 years)
  - d. Rocket motor WUC: 97D3D
  - e. Two per aircraft.



Lot No.	Lot quantity	OV-IOA	Total units installed	Service life expiration date
IH-96KOO -007	10	6	6	October 2006
IHOOC002-009	14	0	0	March 2010
IHM02B002-010	21	0		February 2010
Total installed:		6		
Grand total installed:			6	

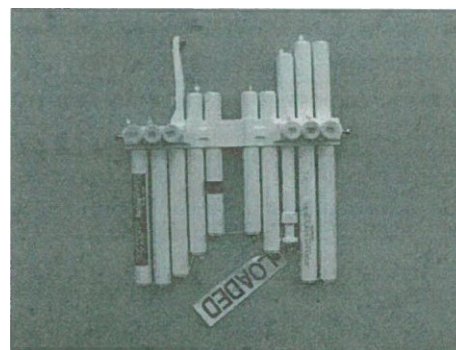
## ILS Notes:

- Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
- We have increased the service life of the Mk 12 Mod 1 (MC77) Rocket Catapult from 96 months (8 years) to 120 months (10 years).
- No lots have expired since the last publication of this report.
- The next lot scheduled to expire will expire in October 2006.
- We have not received any Mk 12 Mod I (MC77) conventional ordnance deficiencies or Els on the OV- 10 aircraft since the last publication of this report.

## QF-4N/S SERIES AIRCRAFT

## Martin-Baker Mk H-7 Ejection Seats

- Underseat Rocket Motor Mk 92 Mod 1
  - NSN: 1377-01-036-8514
  - DODIC: M933
  - Service life: 192 months (16 years)
  - Rocket motor WUC: 97D3R
  - Two per aircraft (pilot and RIO).



Lot No.	Lot quantity	QF-4N	QF-4S	Total units installed	Service life expiration date
IH-88JOO 1-005	306	5	43	48	September 2004

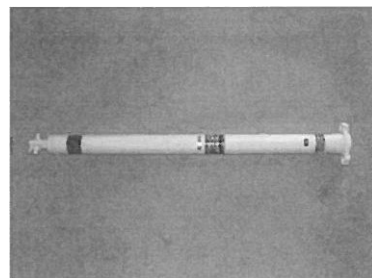
Total installed:	5	43	
Grand total installed:			48

## ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. No lots have expired since the last publication of this report,
3. The next lot scheduled to expire will expire in September 2004.
4. We have not received any Mk 92 Mod I (M933) conventional ordnance deficiencies or Els on the F-4 aircraft since the last publication of this report.

**S-3B AIRCRAFT****Douglas ESCAPAC I E-I Ejection Seats**

1. Rocket Catapult Mk 16 Mod 1
  - a. NSN: 1377-01-040-9324
  - b. DODIC: MD 72
  - c. Service life: 156 months (13 years)
  - d. Rocket motor WUC: 97D44
  - e. Four per aircraft.



Lot No.	Lot quantity	S-3B	Total units installed	Service life expiration date
UPC90B004-026	279	27	27	Februarv 2003
UPC90C004-027	279	66	66	March 2003
UPC90H004-028	69	24	4	August 2003
UPC93B004-031	14	7	7	Februarv 2006
UPC97B001-032	7		1	February 2010
UPC99JOO 1-034	173	151	151	September 2012
UPC99LOOI-035	183	127	127	November
Total installed:		403		2012
Grand total installed:			403	



## ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. The following lots have expired since the last publication of this report:

UPC89G003-021	July 2002
UPC89G003-022	July 2002
UPC89K003-023	October 2002
UPC89M004-025	December 2002
3. The next lot scheduled to expire will expire in February 2003.
4. We have not received any Mk 16 Mod I (MD72) conventional ordnance deficiencies or Els on the S-3 aircraft since the last publication of this report.

## Rocket Motor Mk Mod

- a. NSN:  
2. 82 0/1 (Man/Seat Separator, Left)
- Mod 0 1377-00-119-2022/Mod 1 1377-01-412-6530
- b. DODIC: M928/MU76
- c. Service life: Mod 0: 192 months (16 years); Mod 1: 84 months (7 years)
- d. Rocket motor WUC: Mod 0 97D11/Mod 1 97D12
- e. Two per aircraft (copilot/TACCO).



Lot No.	Lot quantity	S-3B	Total Units Installed	Service life expiration date
UPC93B001-021	391	180	180	February 2009
UPC94C001-022	25	12	12	March 2010
UPC99F001-003A2	10	4	4	June 2006
U PC00E001-0042	90	8	8	May 2007
1 H MOO B002-006 <sup>2</sup>		2	2	February
Total installed:		206		2008
Grand total installed:			206	

## ILS Notes:

- Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
- These lots of Mk 82 Mod 1 Man/Seat Separator Rocket Motors can be used in all applications in which the Mod 0 unit is currently being used. The Mod 1 is a one-for-one exchange with the Mk 82 Mod 0 (1928) unit. Mod 0 units will still be issued until stock is exhausted.
- Indian Head has changed its manufacturer's identification symbol from IH to 11-1M.
- The following lot has expired since the last publication of this report:

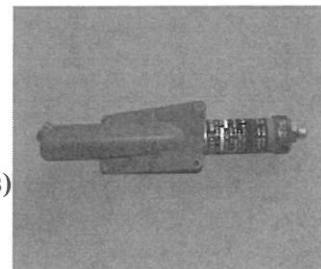
Rocket Motor Mk      Mod

a. NSN:

**3. Rocket Motor Mk 90 Mod 0/1 (Man/Seat Separator, Right)**

- a. NSN: Mod 0 1377-00-201-9554/Mod 1 1377-01-412-6462
- b. DODIC: MC51/MU75
- c. Service life: Mod 0: 192 months (16 years); **Mod 1: 84 months (7 years)**
- d. Rocket motor WUC: Mod 0 97D3Q/Mod 1 97D3S
- e. Two per aircraft (Pilot/SENSO).

UPC86K001-017      October 2002



- 5. The next lot scheduled to expire will expire in February 2009.
- 6. We have increased the service life of the Mk 82 Mod 1 (MU76) Man/Seat Separator Rocket Motor from 84 months (7 years) to 108 months (9 years).
- 7. We have not received any Mk 82 Mod 0 (M928) conventional ordnance deficiencies or Els on the S-3 aircraft since the last publication of this report.

Service life ILS	Lot No.	Lot quantity	S-3B	units installed	expiration date	Total
Notes:	IH-96D001-0041	175	60	60	April 2003	1. These lots of Mk 90 Mod 1 Man/Seat Separator Rocket
	IH-99H001-0051	106	95	95	August 2006	
	IHM00B002-0061,2	110	21	21	February	
	Total installed:		176		2008	
	Grand total installed:			176		

Motors can be used in all applications in which the Mod 0 unit is currently being used. The Mod 1 is a one-for-one exchange with the Mk 90

Mod 0 (MU75) unit. Mod 0 units will still be issued until stock is exhausted.

- 2. Indian Head has changed its manufacturer's identification symbol from IH to IHM.
- 3. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).

Rocket Motor Mk      Mod

a.    NSN:

4.    The following lot has expired since the last publication of this report:

                  UPC86J001-004                    September 2002

5.    The next lot scheduled to expire "ill expire in April 2003.

6.    We have increased the service life of the Mk 90 Mod 1 (MU75) Man/Seat Separator Rocket Motor from 84 months (7 years) to 108 months (9 years).

7.    We have not received any Mk 90 Mod 0/1 (MC51 [MU75) conventional ordnance deficiencies or Els on the S-3 aircraft since the last publication of this report.

ILS Notes:

- |  | Total | Service life |
|--|-------|--------------|
| 1.    Quantity per lot reported installed in CAD/PAD Traceability System (CATS). |       |              |
| 2.    The following lot has expired since the last publication of this report:   |       |              |
| UPC95E001-013                    May 2002  |       |              |

## 4. Rocket Motor Mk 83 Mod 0 (Low Yaw Thruster)

- a. NSN: 1377-00-119-2031
- b. DODIC: M929
- c. Service life: 84 months (7 years)
- d. Rocket motor WUC: 97D31
- e. Two per aircraft (pilot/copilot).



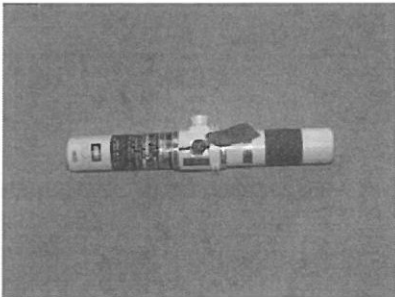
Lot No.	Lot Quantity	S-3B	units installed	expiration date	3. The next lot scheduled to expire will expire in September 2004.
UPC97J002-014R	84	69	69	September 2004	
ESDOOB001-0015	96	77	77	February 2007	
ESDOOH001-0025	119	56	56	August 2007	
Total installed:		202			4. We have not received any
Grand total installed:			202		

Mk 83 Mod 0 (M929) conventional ordnance deficiencies or Els on the S-3 aircraft since the last publication of this report.

- 5. We have qualified Pacific Scientific (ESD) as a manufacturer.

S-	Lot No.	Lot quantity	S-3B	ACB 8
	TAC90MOO 1-005A	213		38
	TAC93L001-006A	107	1	71
	TAC95J001-007A	86	1	82
	TAC96H001-001A	286	8	209
	TACOOKOO 1-008	96	0	0
	TACO 1 GOO 1-009	96		
	Total installed:		1 1	400
	Grand total installed:			

5. Rocket Motor Mk 84 Mod 2 (Vernier)
- a. NSN: 1377-01-199-8315
  - b. DODIC: MF57
  - c. Service life: 156 months (13 years)
  - d. Rocket motor WUC: 97D3L
  - e. Four per aircraft.



3B                      Total                      Service life

ILS Notes:

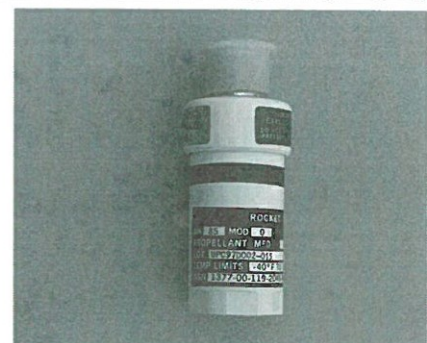
- 1.Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
- 2. The following lots have expired since the last publication of this report:  
TAC89D001-003A April 2002  
TAC89D001-004A April 2002
- 3. The next lot scheduled to expire will expire in December 2003.
- 4. We have not received any Mk 84 Mod 2 (MF57) conventional ordnance deficiencies or Els on the S-3 aircraft since the last publication of this report.

ILS Notes:

Lot No.	Lot Quantity
UPC96J002-014	176
UPC97D002-015	100
ESD99M001-0015	121
ESDOOK001-0025	57
ESD01F001-003A	57
Total installed:	
Grand total installed:	

#### 6. Rocket Motor Mk 85 Mod 0 (High Yaw Thruster)

- a. NSN: 1377-00-119-2045
- b. DODIC: M932
- c. Service life: 84 months (7 years)
- d. Rocket motor WUC: 97D43
- e. Two per aircraft (SENSO/TACCO).

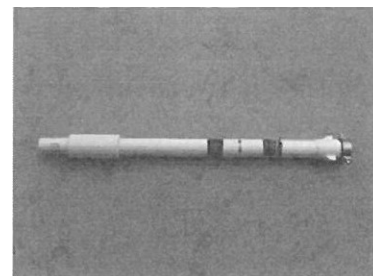


- |   | Total | Service life |
|---|-------|--------------|
| 1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).   |       |              |
| 2. No lots have expired since the last publication of this report.  |       |              |
| 3. The next lot scheduled to expire will expire in September 2003.  |       |              |
| 4. We have not received any Mk 85 Mod 0 (M932) conventional ordnance deficiencies or Els on the S-3 aircraft since the last publication of this report. |       |              |
| 5. We have qualified Pacific Scientific (ESD) as a manufacturer.  |       |              |

### T-2C SERIES AIRCRAFT

#### North American LS-1A Ejection Seats

1. Rocket Catapult Mk 18 Mod O
  - a. NSN: 1377-00-250-0206
  - b. DODIC: M941
  - c. Service life: 120 months (10 years)
  - d. Two per aircraft
  - e. Rocket motor WUC: 97DIF



f. This device can also be utilized in the LS-I configuration seat if installed in pairs.

Lot No.	Lot quantity	T-2C	Total units installed	Service life expiration date
IH-95COO 1-015	144	133	133	March 2005
IH-96KOOI-016	56	52	52	October 2006
.96K001-017	27			October 2006
IH-99F002-018	46	2	2	June 2009
IH-OOC002-019	31	4	4	March 2010
IHM02B002-020	12		0	February
Total installed:		192		2012
Grand total installed:			192	

ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. We have increased the service life for the Mk 18 Mod 0 (M941) Rocket Catapult from 96 months (8 years) to 120 months (10 years).
3. No lots have expired since the last publication of this report.
4. The next lot scheduled to expire will expire in March 2005.
5. We have not received any Mk 18 Mod 0 (M941) conventional ordnance deficiencies or Els on the T-2 aircraft since the last publication of this report.

**T-45A/C AIRCRAFT**

**SJU-17/(V)5/A (F)**  
**SJU-17/(V)6/A**

(Forward seat)  
 (Aft seat)

1. Parachute Deployment Rocket Motor Mk 122 Mod 0
  - a. NSN: 1377-01-246-5279
  - b. DODIC: MT29
  - c. Service life: 84 months (7 years), 120 months (10 years)
  - d. Rocket motor WUC: 97D4A
  - e. Two per aircraft.



Lot No.	Lot	T-45A	T-45C	Total units	Service life expiration
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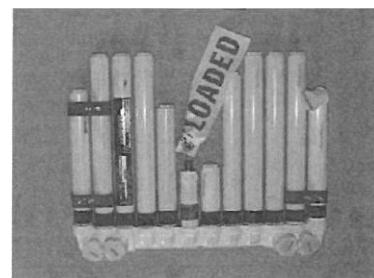
	quantity			installed	date
UPC94C003-0045	229	23	2	25	March 2003
MBA96C003-013	49		13	13	March 2003
UPC97H003-005	192	33	24	57	August 2004
MBA98J004-0144	300	48	33	81	September 2008
MBA99J004-0164	206	15	29	44	September 2009
MBA00F004-0174	257	14	39	53	June 2010
UPC01E005-0014	270	4		4	May 2011
Total		137			
installed: Grand				277	

## total ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
2. The following lot has expired since the last publication of this report:  
MBA95F002-010 June 2002
3. The next lot scheduled to expire »ill expire in March 2003.
4. We have increased the service life on all lots manufacture after 1998 from 84 months (7 years) to 120 months (10 years). All other lots will remain at 84 months (7years).
5. Indian Head has extended the service life 24 months from 84 months (7years) to 108 months (9 years) for the following lot:  
UPC94C003-004 March 2003
6. We have received a CODR on stirrups installed incorrectly on a Mk 122 Mod 0 (MT29) Parachute Deployment Rocket Motors (lot UPCO I E005-001 ). The stirrup links are making contact with the ejection seat main beam, thus making it impossible to connect the parachute withdrawal line. We have contacted the activity and requested photos. We will request that the unit be returned for an engineering investigation. We are pulling sample Condition Code "A" units from the same lot for inspection. The manufacturer has also been contacted and is in the process of verifying this condition with their x-rays.

## 2. Underseat Rocket Motor Mk 123 Mod 0

- a. NSN: 1377-01-246-5280
- b. DODIC: MT30
- c. Service life: 180 months (15 years)
- d. Rocket motor WUC: 97D4B
- e. One per aircraft (Pilot Seat)

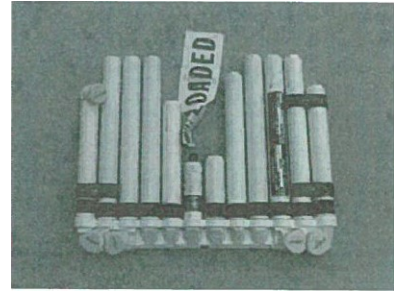


Lot No.	Lot quantity	T-45A	T-45C	Total units installed	Service life expiration date
MBA89F001-003	31		0	0	June 2004
MBA89FOOI-005	16	0	0		June 2004
MBA90H001-006	35	3		3	August 2005
MBA90HOOI-007	6	1		1	August 2005
MBA90KOOI -008	50	5		5	October 2005
UPC90L001H001B	17	3	0	3	November 2005
MBA91JOO 1-009	21	.1	0		September 2006
UPC91 KOO I H002A	14	1	0		October 2006
MBA92COO 1-010	10	5		5	March 2007
UPC93E002H005	27		0		May 2008
MBA93F002-011	54	29	4	33	June 2008
UPC94B003H006	80	16	4	20	February 2009
MBA95C003-012	236	6	7	13	March 2010
MBA96C003-013	71	0	7	7	March 2011
MBA97G003-014	33	0	14	14	July 2012
MBA98J003-017	33	0	9	9	September 2013
MBA99H003-019	53	0	18	18	September 2014
MBAOIA003-020	47	0	9	9	January 2016
MBAO I E003-024	22	0	0	0	May 2016
Total installed:		71	72		
Grand total				143	

ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).
  2. No lots have expired since the last publication of this report.
  3. The next lots scheduled to expire will expire in June 2004.
  4. We have not received any Mk 123 Mod 0 (MT30) conventional ordnance deficiencies or Els on the T-45 aircraft since the last publication of this report.
3. Underseat Rocket Motor Mk 124 Mod 0

- a. NSN: 1377-01-246-5281
- b. DODIC: MT31
- c. Service life: 180 months (15 years)
- d. Rocket motor WUC: 97D48
- e. One per aircraft (Aft seat).



Lot No.	Lot quantity	T-45A	T-45C	Total units installed	Service life expiration date
MBA89F001-004	57	0			June 2004
MBA89F001-005	7			0	September 2004
MBA90H001-006	68	3	0	3	August 2005
MBA90H001-007	36	0		0	August 2005
MBA90K001-008	91	4	0	4	October 2005
UPC90L001H001B	36	2		2	November 2005
MBA91J001-009	34	4	0	4	September 2006
UPC91K001H002A	29	2	0	2	October 2006
UPC91K001H003	6				October 2006
MBA92C001-010	27	5		5	March 2007
UPC93D002H004	62	2	0	2	April 2008
MBA93F002-011	104	20	0	20	June 2008
UPC94C003H005	142	19	5	24	March 2009
MBA95C003-012	165	4	4	8	March 2010
MBA96C003-013	71	1	7	8	March 2011
MBA97G003-014	70	5	16	21	July 2012
MBA98J003-017	66	0	16	16	September 2013
MBA99H003-019	84	0	16	16	August 2014
MBA01A003-020	76		7	7	January 2016
MBA01E003-024	37		0	0	May 2016
Total installed:		71	71		
Grand total installed:				142	

ILS Notes:

1. Quantity per lot reported installed in CAD/PAD Traceability System (CATS).

2. No lots have expired since the last publication of this report.
3. The next lot scheduled to expire will expire in June 2004.
4. We have not received any Mk 123 Mod 0 (MT30) conventional ordnance deficiencies or Els on the T-45 aircraft since the last publication of this report.

### PAD SUMMARY

The following section summarizes the service life, identification data, and total installed assets for each PAD device. Table I contains the PAD device, service life, and operating temperature range. Table I is based on the information current in NAVAIR 1 1-100- I . I-CD at the time this report was printed; NAVAIR 1 1-100- I .1 -CD is the official source for the service life of PAD devices. Table II identifies each PAD device by DODIC, propellant type, explosive weight, manufacturer, NAVAIR part number, applicable specification (procurement description), applicable aircraft, and aircraft manufacturer. Table III presents the total installed assets for the PAD devices, and Table IV provides this information by lot numbers.

Table I. Service Life Listing<sup>a</sup>

Device	Service life (mo)	Operating range
Rocket Catapult		
Mk 12 Mod 1120—40 to Mk 16 Mod 1156—40 to 160 Mk 18 Mod O120—40 to	165 165 CKU-	7A120—40 to 160
Man/Seat Separators		
Mk 82 Mod O192—40 to Mk 82 Mod 1108—40 to Mk 90 Mod O192—40 to	160 160 160 Mk 90	Mod 1108-40 to 160
Yaw Thrusters		
Mk 83 Mod O	84	—40 to 160
Mk 85 Mod O	84	—40 to 160
Vernier Rocket		
Mk 84 Mod 2	156	_40 to 160
Seatback Rocket		
Mk 79 Mod 1	132	_40 to 160
Mk 79 Mod 2	132	-40 to 160
WORD/Drogue Release Assembly		
Mk 113 Mod O	96	—40 to 160
Mk 113 Mod O	96	-40 to 160
Catapult Cartridge		

Mk 205 Mod 1 96 -65 to 165  
Mk 205 Mod 2 96 -65 to 165

See footnote at end of table.

Table I—Continued

Device	Service life (mo)	Operatin range
Underseat Rocket Motor		
Mk 74175 Mod O240-40 to 160 Mk 86/87/88 Mod 1240—40 to 160 Mk 92 O204—40 to 160	160 Mk 74175 O240—40 to 160 Mk 1192-40 to 160	Mod 1240—40 to 160 Mk 86/87/88 160 Mk 100 Mod
Mk 101 Mod O204—40 to 160 Mk 123 Mod O180-65 to 165	160 165 Mk 124	Mod O180-65 to 165
Canopy Remover Rocket Motor		
Mk 109 Mod O	132	-65 to 165
Mk 109 Mod 1	132	-65 to 165
Rocket Motor Divergence		
Mk 121 Mod O	84	-40 to 160
Parachute Deployment Rocket Motor		
Mk 122 Mod O	84/120	-65 to 165

a

Official listing maintained in NAVAR 11-100-1.1-CD.

Table II. Propellant-Actuated Devices Summary

[As of 31 January 2003]

	DODIC	Propellant	Explosive weight (lb)	Manufacturer	Part number	Specification	Aircraft	Aircraft manufacturer
Rocket Catapults (Navy)								
Mk 12 Mod	MC77	Corp.			1CTPB5.00Indian	HeadNAVAR	OV-10A	709AS100MIL-DTL-85097/9A(AS)Rockwell
International	MD72				PIN	31276	S-3A, TA-4J	
Mk 16 Mod	M941				1CTPB7.00Indian	HeadNAVAIR	T-2	736AS300MIL-DTL-85097/1B
California Corp.  UPCO(1000-6)McDonnell Douglas								
Mk 18 ModOCTPB5.00Indian HeadNAVAR 707AS100MIL-DTL-85097/12(AS)Rockwell International Corp.								
Rocket Catapults (Air Force)								
CKU-7A	MS-15	CTPB	6.40	Indian Head UPCO	FI 1820361	MIL-C-48568	F-5E  T-38	Northrup Corp.

Mk 74 Mod 4904093MIL-A- Aerospace Corp. (Pilot)UPCO(MB-		Doubl			OM572 Double	Base6.40Martin-	F-14A F-14B NF-14A NF-14B	BakerNAVAR 85097/8B(AS)Grumman
		Doubl	300-	1205)			F-14A/B	
Mk 74 Mod		Doubl		1M572 Double		Base6.40Indian	F-14A/B	Head759AS130MIL-A-
Aerospace Corp. (Pilot)		Doubl					F-14	85097/8B(AS)Grumman
Mk 75 Mod		CTPB CTPB					AV-8B NAV-8B TAV-8B	
		HTPB HTPB					AV-8B NAV-8B TAV-8B	
		CTPB					S-3B, ES-3A A-4F/M, TA-4J	
		CTPB					S-3B ES-3A	
		CTPB					S-3B ES-3A	
		CTPB					S-3B ES-3A	
		Doubl					EA-6B	
		Doubl					EA-6B	
		Doubl					EA-6B	
		Doubl					EA-6B	

O M573 Double

Base 6.40 Martin-BakerNAVAIR 4904094MIL-A-85097/8/B(AS)Grumman Aerospace Corp.  
(NFO)UPCO(MB-300-1206)

Mk 75 Mod 1M573 Double Base6.40Indian Head759AS140MIL-A-85097/8B(AS)Grumman Aerospace Corp.  
(NFO)

Mk 79 Mod 1 (SBR)MF212.70Indian HeadNAVAIR 672AS200MIL-A-85097/3C(AS)Hawker-Siddeley/ McDonnell  
TalleyPIN 50579-5

Mk 79 Mod 2 (SBR)MF212.70Indian HeadNAVAIR 672AS200MIL-A-85097/3C(AS)Hawker-Siddeley/ McDonnell TalleyPIN 50579-7

Mk 82 Mod OM9280.60UPCONAVAIR 944ASIOOMIL-DTL-85097/5B(OS)Lockheed California Corp.  
(Man/Seat1033-2 (UPC)McDonnell Douglas Separator, Left)

Mk 83 Mod OM9290.05UPCONAVAIR 946ASIOOMIL-DTL-85097/6A (AS) s-3B Lockheed California Corp.  
(Low Yaw Thruster)Pacific1105-1 (UPC) Scientific

Mk 84 Mod 2MF571.12TalleyNAVAIR 503AS200MIL-DTL-85097/7D(OS)Lockheed California Corp.  
(Vernier Rocket)UPCO(50436-9)

(1340-2)

Mk 85 Mod OM9320.10UPCONAVAIR 989ASIOOMIL-DTL-85097/6A(AS)Lockheed California Corp.  
(High Yaw Thruster)Pacific1136-1 (UPC) Scientific

Mk 86 Mod OM938      Double Base6.40Martin-BakerNAVAIR 4904171MIL-A-85097/8B(AS)Grumman Aerospace Corp. (PilotiECMO-3)UPCO(MB-200-610)

Mk 86 Mod 1M938      Double Base6.40Indian Head759AS170MIL-A-85097/8B(AS)Grumman Aerospace Corp.  
(PiloUECMO-3)

Mk 87 Mod O      M939      Double Base      6.40      Martin-Baker      NAVAIR 4904172      MIL-A-85097/8B(AS)      Grumman Aerospace Corp.  
(ECMO-I)UPCO(MB-200-612)

Mk 87 Mod 1M939      Double Base6.40Indian Head759AS180MIL-A-85097/8B(AS)Grumman Aerospace Corp.  
(ECMO-I)

Table II—Continued

[As of 31 January 2003]

Device	DODIC	Propellant	Explosive weight (lb)	Manufacturer	Part number	Specification	Aircraft	Aircraft manufacturer
Mk 88 Mod O (ECMO-2)	M940		6.40	Martin-Baker UPCO		MIL-A-85097/8B(AS)	EA-6B	
Mk 88 Mod 1 (ECMO-2)	M940	Double Base	640	Indian Head	NAVAR 4904173 (MB-200-614)	MIL-A-85097/8B(AS)	EA-6B	Grumman Aerospace Corp.
Mk 90 Mod O (Man/Seat Separator, Right)	MC51	Double Base	0.60	UPCO	759190	MIL-DTL-85097/5B(OS)	s-3B ES-3A	Grumman Aerospace Corp.
Mk 90 Mod 1	MU75	CTPB	0.60	Indian Head	NAVAR 970ASIOO 1033-3 (UPC)	MIL-DTL-85097/5B(OS)	S-3B ES-3A	Lockheed California Corp.
Mk 92 Mod 1	M933	CTPB	6.20	Indian Head	NAVAR 970AS201	MIL-A-85097/8BAS)	Q F-4N	Lockheed California Corp.
Mk 100 Mod O	MD68	Double Base	6.60	Martin-Baker	NAVAR 1175ASIOO	MIL-A-85097/8B	FA-18A FA-18B F 18C	McDonnell Douglas
		Double Base			MBEU-69025-2 NAVAR 1176AS200		FA-180	McDonnell Douglas
Mk 101 Mod O	MD69		6.60	Martin-Baker		MIL-A-85097/8B	FA-180	
Mk 109 Mod O	MF56	Double Base	10	Indian Head Talley UPCO	MBEU-69028-2 NAVAR 1176AS300 P/N-50656-5 NAVAR 1507ASIOO	MIL-DTL-85097/13C	FA-18B FA-18D	McDonnell Douglas McDonnell Douglas (Boeing)
		CTPB					18A FA-18B	
Mk 109 Mod 1	SS67		1.0	Indian Head UPCO	1507AS201	MI-DTL-85097/13A(OS)	FA-180 FA-18E FA-18F	McDonnell Douglas (Boeing)
Mk 113 Mod O/1	MG67		0.288	UPCO		MIL-DTL-85097/1 ID(OS)		
Mk 121 Mod O (Divergence)	MT28	CTPB	0.22	Talley	NAVAR 673AS200 P/N 50885-1	MIL-A-85097/15	F 18A F 18B F 18C	Hawker-Siddeley/ McDonnell Douglas
	MT29	CTPB	0.5	Pacific Scientific	P/N 1163-3 (UPC) NAVAR 673AS300 2-102370-2 (Pac Sci)	MIL-A-85097/16	FA-18D FA-18E FA-18F	McDonnell Douglas
Mk 122 Mod O		Double Base		Martin-Baker UPCO	MBEU-146190		AV-8B TAV-8B	McDonnell Douglas
Mk 123 Mod O	MT30		6.8			MIL-A-85097/17	TAV-8B	British Aerospace/ McDonnell Douglas Grumman Aerospace Corp.
		Double Base						
				Martin-Baker UPCO	MBEU-142801			McDonnell Douglas
							FA-18C FA-180. FA-18E	Grumman Aerospace Corp.
Mk 124 Mod O	MT31	Double Base	6.8			MIL-A-85097/17	F 18F T-45 A T-45C F_14 D	McDonnell Douglas
				Martin-Baker UPCO	MBEU-142802		FA-18C F 18D	British Aerospace/ McDonnell Douglas Grumman Aerospace Corp.
							FA-18F T-45A	Hawker-Siddeley/ McDonnell Douglas
Mk 205 Mod 1/2	XW36	CTPB HTPB	0.25	Talley	NAVAR 772AS400 PIN 5913-5	MIL-DTL-85097/2E		



							T-45C F_140  FA- 180 FA- 1 BE FA- 1 BF T-45 A T-45C F_14 D  AV-8B TAV-8B	
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Table III. Total Installed Assets

[As of 31 January 2003]

PAD Device	DODIC	Aircraft	Quantity installed (ea)	Total quantity installed (ea)
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		ov-10	6	6
Mk 12 Mod 1	MC77		14	14
Mk 16 Mod 1	MD72	S-3B	403	403
				417
		TQC	192	192
Mk 18 Mod O	M941	F-14A	25	
Mk 74 Mod O	M572	F-14B F-14A	54	79
			12	20
Mk 74 Mod 1	M572	F-14B	8	99
		F-14A	25	
Mk 75 Mod O	M573	F-14B F-14A	52	77
			9	18
Mk 75 Mod 1	M573	F-14B	9	95
		TA4J	10	10
Mk 82 Mod O	M928	S-3B	192	192
				202
MK 82 Mod 1	MU76	TA-4J S-3B	14	14
				216
Mk 83 Mod O	M929	S-3B	202	202
Mk 85 Mod O	M932	S-3B	215	215
Mk 92 Mod 1	M933	QF-4N	5	
		QF-4s	43	48
Mk 86 Mod O	M938	EA-6B	189	189
Mk 86 Mod 1	M938	EA-6 B	43	43
				232
Mk 87 Mod O	M939	EA-6B	110	110
Mk 87 Mod 1	M939	EA-6B	6	6
				107
Mk 88 Mod O	M940	EA-6B	103	103
Mk 88 Mod 1	M940	EA-6B	13	13
				116

Table III—Continued  
[As of 31 January 2003]

PAD Device	DODIC	Aircraft	Quantity installed (ea)	Total quantity installed (ea)
------------	-------	----------	-------------------------	-------------------------------

Mk 90 Mod 1	MU75 MU75	S-3B	181	
Mk 100 Mod O	MD68	F 18A FA-18B		
		FA- 18 C	181	181
		FA-18D	32	181
			154	
Mk 101 Mod O	MD69	FA- 18B	45	
		FA- 181)		
			33	412
Mk 79 Mod 1	MF21	AV-8B	51	
		NAV-8B		
		TAV-8B		
			248	84
			2	
Mk 109 Mod O	MF56	FA- 18A	62	
Non-NACES		FA- 18B		312
		FA-	139	
Mk 109 Mod 1	SS67	18C	28	
Non-NACES		FA-	176	
		18D	56	399
		FA-	158	
		18A		
	MF56	FA-	22	
MK 109 Mod O		18B	101	318
NACES		FA-18C	37	717
	SS67	FA- 181)		
Mk 109 Mod 1			310	
NACES		FA- 18C	115	
		FA- 18 D	59	540
		FA- 18E FA-	56	
		18F	109	
	MF57	FA-18C FA-	39	202
Mk 84 Mod 2		18D	30	742
		FA- 18 E		1,459
		FA- 18F		
			411	411
		S-3B	400	
		Repaired	11	
		Not repaired		

III—Continued  
January 2003]

Table  
[As of 30

PAD Device	DODIC	Aircraft	Quantity installed	Total quantity installed
Mk 113 Mod 0/1	MG67	AV-8B NAV-8B TAV-8B	129 29	
CKU-7A	MS15	T-38A	32 8 18	167
Mk 121 Mod O	MT28	TAV-8B	54	
Mk 122 Mod O	MT29	F_ 14D FA-18C FA-18D FA-18F T-45A T-45C	86 206 155 51 92 137	58 54 86
Mk 123 Mod O	MT30		140	504
		F_ 14D F 18D		277 867
		FA- 18F	38 92	
		T-45A T-45C	45	38
Mk 124 Mod O	MT31		71 72	137
		F_ 14D FA- 18C		143 318
		FA- 18D FA- 18E	46 249 92 49	46
Mk 205 Mod 1	XW36	FA-18F	44	434
		T-45A	71	
Mk 205 Mod 2	XW36	T-45C	71	142
				622
		AV-8B NAV-8B TAV-8B AV-8B NAV-8B TAV-8B	47 20 65 1 6	126 53 179

Table IV. Total Reported Installed By Lot Number

[As of 30 January 2003]

DODIC	Model	Lot No.	Lot quantity	Quantity installed	Total installed	Expiration date	Aircraft type(s)
rac77	Mk 12 Mod 1	IH-96K001-007	10	6		October 2006	
		IH-OOC002-009	14			March 2010	
		IHM02B002-020	21			February 2012	
MD72	Mk 16 Mod 1	UPC90B003-026	279	30		February 2003	
		UPC90C003-027	279	70		March 2003	
		UPC90H003-028	69	24		August 2003	
		UPC93B004-031	14	9	6	February 2006	
		UPC97B001-032	7	1		February 2010	
		UPC99J001-034	173	151		September 2012	
		UPC99L001-035	183	127		November 2012	
M941	Mk 18 Mod O	UPC02C001-036	172			March 2015	
		IH-95C001-015		133		March 2005	
		IH-96K001-016	144	52	443	October 2006	
		IH-96K001-017	56	1		October 2006	
		IH-99F002-018	27	2		June 2009	
M572	Mk 74 Mod O	IH-OOC002-019	46	4		March 2010	
		IHM02B002-020	31			February 2012	
			12				
		MBA84B001-013		6	192	February 2004	
		MBA85E001-015	24	6		May 2005	
M572	Mk 74 Mod 1	MBA85E001-017	18	13		May 2005	
		MBA85H001-018	18	34		August 2005	
		UPC86J001-001A]B	126	4		August 2006	
		MBA88B001-024	25	9	79	February 2008	
M573	Mk 75 Mod O	MBA88H001-026	15	3		August 2008	
		IH-94L002-003A	6			November 2014	
		IH-94L002-004	23	12	20	November 2014	
		IH-94L002-005	15	8	99	November 2014	
			38				F-14AJF-14B
M573	Mk 75 Mod 1	MBA84B001-013		4		February 2004	
		MBA85E001-015	24	9		May 2005	
		MBA85E001-017	18	13		May 2005	
		MBA85H001-018	18	29	77	August 2005	
M928	Mk 82 Mod O	UPC86J001-001AJB	134	4		August 2006	
MU76	MK 82 Mod 1	MBA88B001-024	25	8		February 2008	
		MBA88H001-026	15		18	August 2008	
		IH-94L002-003A	5	2	95	November 2014	
		IH-94L002-004	22	12		November 2014	
		IH-94L002-005	12	6	202	November 2014	
			34			February 2009	
		UPC93B001-021			14	March 2010	
		UPC94C001-022		190		June 2008	
					216	May 2009	TA-4J/S-3B

## IV—Continued

30 January 2003]

		UPC99F001-003A	391	12		February 2010	
		UPCOOE001 -004	25	4			
		HMOOB002-006	10	8			
			90	2			
			14				

Table  
[As of

DODIC	Model	Lot No.	Lot quantity	Quantity installed	Total Installed	Expired date	Aircraft type
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M929	Mk 83 Mod O	UPC97J002-014R ESDOOB00I-00I ESDOOH001-002	84 96 119	69 77 56		September 2004 February 2007 August 2007	
M932	Mk 85 Mod O	UPC96J002-014 UPC97D002-015 ESD99M001-001 ESDOOKOOI -002 ESD01F001-003A	176 100 121 121 57	93 64 56 2		September 2003 April 2004 December 2006 December 2006 June 2008	
M933	Mk 92 Mod 1				202		
M938	Mk 86 Mod O	IH-88J001-005	306	48		September 2004	S-3B
		MBA84B001-013 MBA85E001-015 MBA85E001-017 MBA85H001-018 MBA86J001-021 UPC86J001-001A/B MBA86J001 H020 MBA88B001H023	12 16 24 32 24 37 43 7	9 13 21 30 20 20 43 2		February 2004 May 2005 May 2005 August 2005 September 2006 September 2006 September 2006 February 2008	SOB QF-4N/QF-4S
M939	Mk 87 Mod O	MBA88E001-027 MBA89F001-030 IH-94L002-003A	24 24 79	13 14 43		May 2008 June 2009 November 2014	
		MBA84B001-013 MBA85E001-015 MBA85E001-017 MBA85H001-018 MBA86J001H020 MBA86J001-021 UPC86J001-001A/B	6 8 12 25 27 12 25	5 7 9 23 27 11 7	189 43 232	February 2004 May 2005 May 2005 August 2005 September 2006 September 2006 September 2006 February 2008	EA-6B
M940	Mk 88 Mod O	MBA88B001 H023 MBA88E001-025 MBA88E001-028 MBA88H001H029 MBA88E001-030 MBA89F001-031 IH-94L002-003A	11 10 3 12 12 1 1	6 6 1 7 0 6		2008 May 2008 May 2008 August 2008 May 2008 June 2009 November 2014	
		MBA84B001-013 MBA85E001-015 MBA85E001-017 MBA85H001-018 MBA86J001-021 MBA88E001-025 MBA88B001023 MBA88E001-027 MBA89F001-030 MBAOOL002-031 IH-94L002-003A IH-94L002-004	6 26 6 8 12 31 13 12 6 12	3 6 9 16 11 12 6 7 13 30 1	110 6 116 85 31 116	February 2004 May 2005 May 2005 August 2005 September 2006 May 2008 February 2008 May 2008 June 2009 November 2020 November 2014 November 2014	EA-6B EA-6B EA-6B

IV—Continued  
30 January 2003]

			24 46 49 25				
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IV—Continued  
30 January 2003]

Table  
[As of

DODIC	Model	Lot No.	Lot quantity	Quantity installed	Total installed	Expired date	Aircraft type
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IV—Continued  
30 January 2003]

MU75	Mk 90 Mod 1	IH-96D001-004	175	60		April 2005	
		IH-99H001-005	106	95		April 2008	
		IH-OOB001-006	110	21		February 2009	
MD68	Mk 100 Mod O	MBA86G001-012	57	24		July 2004	
		MBA86G001-013	47	14		July 2004	
		MBA86G001-015	30	7	176	July 2004	S-3B
		MBA86J001-016	56	11		September	
		MBA86M001-017	29	12		2004	
		MBA86J001-018	18	5		December	
		MBA86J001-020	7	2		2004	
		MBA87K001-024	21	10		September	
		MBA87K001-025	15	6		2004	
		MBA88B001-026	23	21		September	
		MBA88G001-027	5	3		2004	
		MBA88B001-028	11	40		October 2005	
		MBA88G001-029	55	3		October 2005	
		MBA88G001-031	16	62		February 2006	
		MBA89A001-033	128	60		July 2006	
		MBA89B001-032	66	6		February 2006	
		MBA89F001-034	66	6		July 2006	
		MBA91B001-038	8	48		July 2006	
		MBA93C002-040	66	64		January 2007	
MD69	Mk 101 Mod O	MBA94C003-041	182	7		February 2007	
		MBA96L003-047	46	6	412	June 2007	
		MBA99M003-050	47	0		February 2009	FA-18A/B/C/D
			19			March 2011	
		MBA86G001-012				March 2012	
		MBA86G001-013				November	
		MBA86J001-020	2	2		2015	
		MBA86M001-017	11	6		December	
		MBA87K001-024	8	2		2017	
		MBA87K001-025	7	2			
		MBA88B001-026	2	2		July 2004	
		MBA88G001-029	3	5		July 2004	
		MBA89A001-033	7	6		September	
		MBA89B001-032	8	7		2004	
		MBA91B001-038	25	20		December	
		MBA93C002-040	30	12		2004 October	FA-18B/D
		MBA94C003-041	57	5		2005	
		MBA96L003-047	23	14		October 2005	
		MBA93M003-050	33			February 2006	
			47			July 2006	
		TAC92H001-055	15	0		January 2007	
		TAC93L001-056				February 2007	
		TAC97D001-001				February 2008	
		TAC97J002-001	88	2		March 2011	
		IH-98A003-002	18	77		March 2012	
		TAC99H002-002	135	35		November	
		IH-99M002-003	171	50		2015	
		TAC00L002-003					
		TAC01E002-004			312		AV-8B/TAV-8B
MF21	Mk 79 Mod 1						

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	TAC01E002-005	110	2		December	
	TAC01K002-006	261	0		2017	
	TACO 1 K002-007	50	0			
	TAC01M002-008	30	0		August 2003	
	TAC02A002-009	50	0		November	
	TAC02E002-010	28			2004 April	
		53			2008	
		40			September	
		20			2008	
		8			January 2009	
		12			August 2010	
					December	
					2010	
					November	
					2011 May	
					2012 May	
					2012	
					October 2012	
					October 2012	
					December	
					2012	
					January 2013	
					May 2013	

## IV—Continued

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Table  
[As of

DODIC	Model	Lot No.	Lot quantity	Quantity installed	Total installed	Expired date	Aircraft type
MF56	Mk 109 Mod O	UPC92B001-033	46	NACES Non-		February 2003	
		UPC92D001-034	48	19 NACES		April 2003	
		UPC92G001-035	45	21	0	July 2003	
		UPC92G001-036	343	26		July 2003	
		UPC92K001-038	49	10	251	October 2003	
		UPC93A001-039	35	26	0	January 2004	
		UPC93C001-041	48	19	0	March 2004	
		UPC93J001-042	25	32	0	September 2004	
		TAC94A002-001A	15	25	0	January 2005	
		UPC94D001-043	60	1	0	April 2005	
		UPC95D001-044	29	57	0	July 2006	
		UPC95G001-045	27	29	0	July 2006	
		UPC95H001-046	25	27	0	August 2006	
		UPC95L001-047	20	25	46	November 2006	
		UPC96B001-048	48	20		February 2007	
		UPC96C001-049	8	8		March 2007	
		UPC96G001-050	195	67	0	March 2007	
		UPC96E001-051	18	16	0	May 2007	
		UPC97B001-053	18	17	0	February 2008	
		UPC97G001-054	16	15	0	July 2008	
SS67	Mk 109 Mod 1	UPC97G001-055	18	17	0	February 2009	FA-18A/B/C/D/E/F
		UPC98B001-056	16	15	0	February 2010	
		UPC99B001-057	6	4	0	February 2010	
		IH-98D001-001	54	54	41	April 2009	
		TAC99D001-002	51	16	164	April 2010	
		ACOOA001-003	57	4	84	April 2010	
		AC01H001-005	250	50	6	January 2011	
		TAC01K001-006	273	85	18	August 2012	
		TAC01M001-007	109	46	2	October 2012	
			60	17	726	December 2012	
MG67	Mk 113 Mod O	TAC90M001-005A	2		39	December 2003	s-3B
		AC93L001-006A			72	December 2006	
		TAC95J001-007A	213		83	November 2006	
		AC96H001-001A	107		17	September 2008	
		ACOOKOO 1-008	86			August 2009	
MG67	Mk 113 Mod 1	AC01G001-009	286			October 2013	AV-8B/TAV-8B
MS15	KU-7/A	UPC99D001-001	96		159	July 2014	
		UPCOOG001-002	96			April 2007	
		TAC98M003-001			8	July 2008	
		TACOOJ004-003	237			December 2006	
		ACOI H004-004	32			July 2008	
MT28	Mk 121 Mod O	IH-95E001-046	64			August 2009	F-5E/F/T-38A
		IH-96H001-048	30		7		
		IH-99F001-049	7		3		
					21	May 2005	AV-8B/NAV-8B/TAV8B
						August 2006	
						June 2009	

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	IHMOOC001-051	8	736	22	167	March 2010	
	IHMOOE001-052	5		5		May 2010	
		21					
	ESDOOA001-001	46				January 2007	
		22					
					58		
		86			54		
			54				

Table  
[As of

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30 January 2003]

DODIC	Model	Lot No.	Lot quantity	Quantity Installed			Total installed	Expired date	Aircraft type
MT29	Mk 122 Mod O	UPC94C003-004	229	F-14D	F-18	T-45	78	March 2003	F-14D/FA-18C,E,F, T-45A,C
		MBA96C003-013	49	19	34	25	32	March 2003	
		UPC97H003-005	192	8	11	13	162	August 2004	
		MBA98J004-014	300	25	80	57	254	September 2008	
		MBA99J004-016	206	28	145	81	172	September 2009	
		MBA00F004-017	257	420	124	44	165	September 2009	
		UPC01E005-001	270	86	110	53	21	June 2010	
		Totals			17	4	884	May 2011	
MT30	Mk 123 Mod O	MBA89F001-003	31	0013	521	277			F-14D/FA-18C,E,F, T-45A,C
		MBA89F001-005	16	001			3		
		MBA90H001-006	35	42	3	0	26	June 2004	
		MBA90H001-007	6	00	0	3	20	June 2004	
		MBA90K001-008	50	9	10	1	5	August 2004	
		UPC90L001 H001 B	17	53	0	1	11	August 2004	
		MBA91J001-009	21	0100	15	5	11	October 2004	
		UPC91K001H002A	14	0038	1	3	5	November 2005	
		MBA92C001-010	10		6	1	5	September 2006	
		UPC93E002H005	27	0012	2	1	2	October 2006	
		MBA93F002-011	54	0	0	1	54	March 2007	F-14D/F-18C,D,E,F T-45A, C
		UPC94B003H006	80	12	1	5	39	May 2008	
		MBA95C003-012	236	1	12	1	24	June 2008	
		MBA96C003-013	71	1	14	33	14	February 2009	
		MBA97G003-014	33	10	8	20	33	March 2010	
		MBA98J003-017	33	01	7	13	23	March 2011	
		MBA99H003-019	53	8	18	7	39	July 2012	
		MBA01A003-020	47	2602	14	14	11	September 2013	
		MBA01E003-024	22	0000	21	9	3	August 2014	
		Totals	46		2	18	319	January 2016	
MT31	Mk 124 Mod O				3	90		May 2016	F-14D/F-18C,D,E,F T-45A, C
		MBA89F001-004			137	143	5		
		MBA89F001-005	57				0		
		MBA90H00106	7		5		41		
		MBA90H001-007	68		0	0	15	September 2004	
		MBA90K001-008	36		26	3	42	September 2004	
		UPC90L001H001B	91		15	0	6	September 2004	
		MBA91J001-009	36		26	4	24	August 2005	
		UPC91K001H002A	34		3	4	5	August 2005	
		UPC91K001H003	29		19	2	15	October 2005	
		MBA92C001-010	6		2	2	9	November 2005	F-14D/F-18C,D,E,F T-45A, C
		UPC93D002H004	27		0	5	95	September 2005	
		MBA93F002-011	62		10	2	62	October 2006	
		UPC94B003H005	104		6	20	104	October 2006	
		MBA95C003-012	142		36	24	21	March 2007	
		MBA96C003-013	165		90	8	66	April 2008	
		MBA97G003-014	71		13	8	40	June 2008	
		MBA98J003-017	70		43	21	56	March 2009	
		MBA99H003-019	66					March 2010	
		MBA01A003-020							

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	MBA01E003-024	84 76 37 Totals		24 40 90 434	16 16 70 142	16 622	March 2011 July 2012 September 2013 August 2014 January 2016 May 2016
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Table  
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DODIC	Model	Lot No.	Lot quantity	Quantity Installed	Total installed	Expired date	Aircraft type
XW36  x W36	Mk 205 Mod 1  Mk 205 Mod 2	TAC95G001-002	112	26	87	July 2003	AV-8B/NAV-8B/TAV8B AV-8B/NAV-8B/TAV8B
		TAC95J001-003	69	19		September 2003	
		TAC96A001-004	36	35		2003	
		TAC98M002-001	77	30	51	January 2004	
		TAC98M002-002	50	18		December 2006	
		TAC00B002-003A	60	3	138	December 2006	
		TACO IB002-004	126			2006 February 2008	
		TAC01G002-006	24			February 2009 July 2009	



