



# *448th Supply Chain Management Wing*



## **Commercially Used & Overhauled Program**



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*429 SCMS/GUMD - SASPO*  
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**15 Aug 2019**



# *Introductions*

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- **Strategic Alternate Sourcing Program Office (SASPO)**
  - **Mr. Jerry Zamora – SASPO Chief**
  - **Ms. Summer Wishon– SASPO Lead**
  - **Mr. Randolph (Randy) Harris – Contract Lead**
  - **Mr. Stephen Benjamin – CU&OH Program Manager**
  - **Mr. Myron Knight – RE/RD Program Manager**



# Commercially-Used Overhauled Program



- **Air Force (AF) requirements**
  - Items with & without AF approved source(s) of repair
  - FAA Part 145 certified repair house
  - Additional opportunities for commercially-used parts
- **Other SASPO Programs/Products**
  - Reverse Engineer / Repair Development (Myron Knight)
  - RPOW Repairs List (4yrs of forecasted raw data)
  - RPOW Spares List (3yrs of forecasted raw data)
    - SASPO Target List
    - SASPO “G” Coded List
- **Source Approval Request (SAR) training (available on our website)**  
<https://www.tinker.af.mil/Home/429SCMS-SASPO/>



# Overview of Commercially-Used Parts



- **Objective: Match AF requirements to industry availability of commercially-used parts with a military application**
- **Purpose: To drive cost efficiencies through careful implementation of a commercial practice**
- **Goal: Achieve cost efficiencies and war fighter support**
- **Savings to date: Over \$128.3M**



# F108

## Commercially-Used Overhauled Program

### Prototype



#### Pilot 2011-2012

- 1<sup>st</sup> approved item
- 1<sup>st</sup> contract awarded

#### RESULTS:

- Significant savings
- 84 days reduced PLT

### Expand



#### 2012-2018

- Approved many items through SAR process
- 40 contracts awarded
- Added FAA as an option for non-CSI parts

#### RESULTS:

- Significant savings
- 292 days reduced PLT

### Standardize



#### 2019 and Beyond

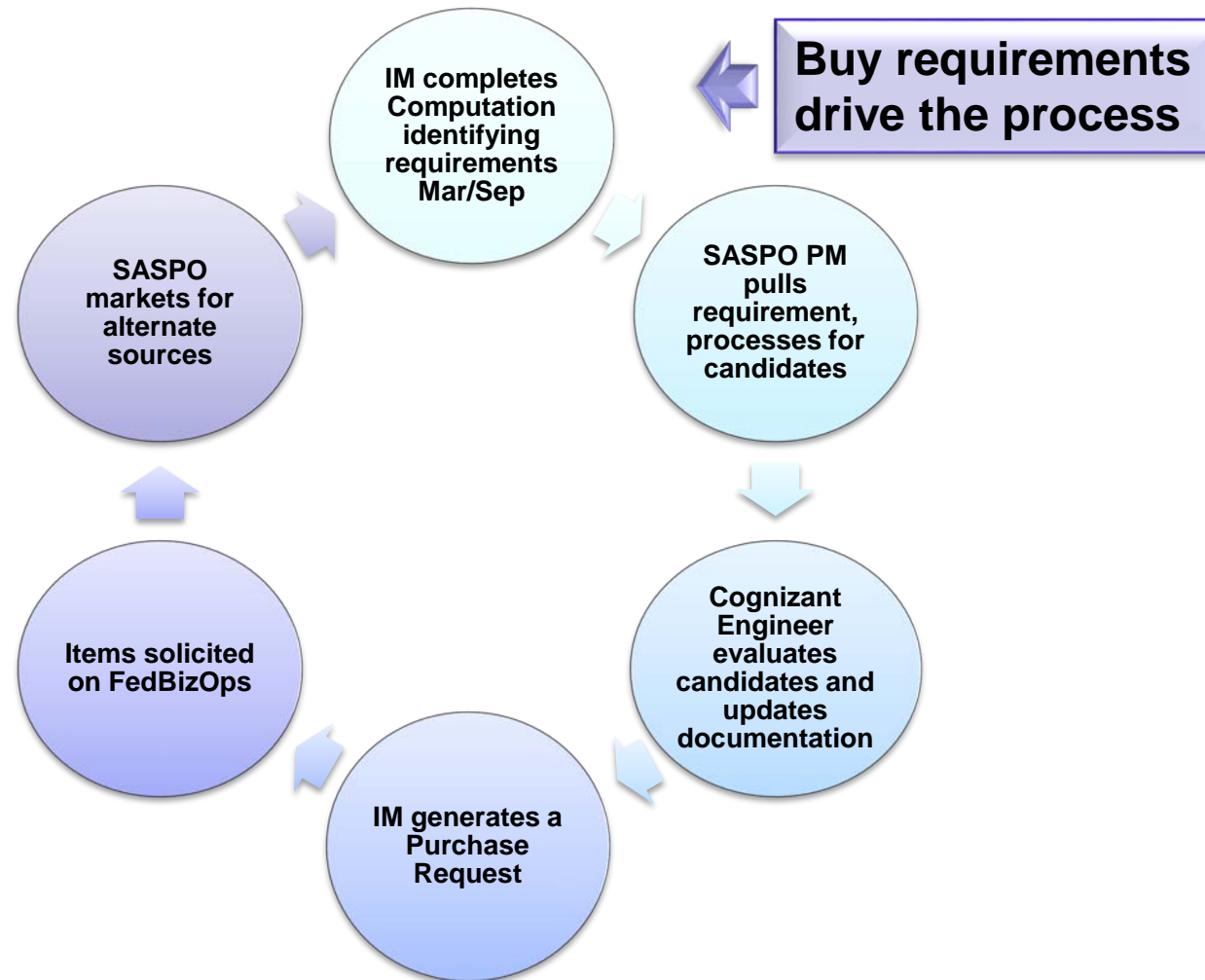
- Analyze F108 Life Limited Parts (LLPs)
- Analyze other commercial derivative engines
- Increase approved items through Source Approval process
- Awarded First Method 2 on 2 July 2019

Increase Supportability ★ Increase Availability ★ Increase Competition ★ Reduce Costs

*Supplying Warfighter Dominance*



# Candidate Determination Process



Increase Supportability ★ Increase Availability ★ Increase Competition ★ Reduce Costs

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# ***Commercially-Used Parts with AF Approved Source(s) of Repair***



- **Parts with at least one AF approved source of repair**
  - **Advertised and procured through Federal Business Opportunities (FedBizOps) at [www.FBO.gov](http://www.FBO.gov)**
  - **Forecasts published twice per year from the Fall and Spring AF Requirements Computation Cycle on Federal Business Opportunities (FedBizOps) at [www.FBO.gov](http://www.FBO.gov)**
- **Solicitation identifies**
  - **AF Approved manufacturing (usually OEM) and repair sources**
  - **Parameters for disqualification of parts**
    - **Involved in an accident, submerged in water, exposed to volcanic ash, etc.**



# ***Commercially-Used Parts with No AF Approved Source(s) of Repair***



- **Parts with NO AF approved source(s) of repair Method 1**
  - **Advertised through Requests For Information (RFI) or Sources Sought Synopsis on Federal Business Opportunities (FedBizOps) at [www.FBO.gov](http://www.FBO.gov)**
    - **Looking for companies to submit repair Source Approval Request (SAR) packages**
    - **Companies approved and qualified via the SAR process will be listed as an AF Approved Source of Repair**
      - **AF approved Source(s) of Repair will be included in the solicitations on FedBizOps for future commercially-used overhauled requirements**





# ***Commercially-Used Parts with No AF Approved Source(s) of Repair***



- **Parts with NO AF approved source(s) of repair Method 2**
  - **Companies approved and qualified via the FAA Part 145 House process**
    - **Non-CSI items with out a valid AF approved repair source**
    - **PMA parts currently not accepted**
    - **Supplier must be AS9110, AS9120, and ISO 9001 or AS9100 certified**
    - **Certified to buy off 8130-3 “Authorized Release Certificate”**
      - **Disqualifiers – Volcanic ash, radiation, or submerged**



# ***AF Commercially-Used Overhauled Program***



- **If you have the right repair capabilities the AF would like you to submit repair SARs**
  - **Request Qualification Requirements (QR) from the AFSC Small Business Office: <http://www.tinker.af.mil.sbo.asp>**
  - **Include the NSN in the Subject Line of the email**
  - **Determine if you have the ability to repair the item**
  - **Determine if the AF repair fits your business case**
  - **Build a SAR IAW the QR and AFMCI 23-113**



# Commercially Used Overhauled List - Example



F108 With Air Force-Approved Source(s) of Repair											
	FSC	NSN	Noun	CSI	FY18 QTY	FY18 VALUE	FY19 QTY	FY19 VALUE	FY20 QTY	FY20 VALUE	FY18-FY20 Buy Value
1	2840	011892638	VANE ASSEM		91	11,820,900	87	11,301,300	84	10,911,600	\$34,033,800
2	2840	011873200	VANE ASSEM		70	10,598,000	74	11,203,600	69	10,446,600	\$32,248,200
3	2840	013443232	LINER,OUTE		38	7,710,200	49	9,942,100	50	10,145,000	\$27,797,300
4	2840	011878262	VANE ASSEM		81	7,358,040	82	7,448,880	80	7,267,200	\$22,074,120
5	2840	012244243	SUPPORT,TU	y	21	6,652,800	28	8,870,400	27	8,553,600	\$24,076,800
6	2840	012403435	SUPPORT,TU	y	98	6,074,040	62	3,842,760	55	3,408,900	\$13,325,700
7	2840	014722727	STEEL CASE	y	14	5,458,320	45	17,544,600	27	10,526,760	\$33,529,680
8	2840	014651987	VANE ASSEM		54	4,497,120	52	4,330,560	53	4,413,840	\$13,241,520

F108 No Air Force-Approved Source(s) of Repair											
	FSC	NSN	Noun	CSI	FY18 QTY	FY18 VALUE	FY19 QTY	FY19 VALUE	FY20 QTY	FY20 VALUE	FY18-FY20 Buy Value
1	2840	014558002	COMBUSTION	y	39	4,001,400	39	4,001,400	37	3,796,200	\$11,799,000
2	2840	014813365	SHROUD,COM		5	1,453,200	7	2,034,480	8	2,325,120	\$5,812,800
3	2840	014593039	SUPPORT,TU	y	15	617,021	21	863,830	22	904,965	\$2,385,816
4	2840	011469378	SEAL,AIR,A	y	16	498,432	9	280,368	6	186,912	\$965,712
5	2915	015133409	HOUSING,FU	y	21	324,450	7	108,150	5	77,250	\$509,850



# *Additional Opportunities for Commercially-Used Parts*



- **What are other opportunities**
  - **Expanding to additional engines**
    - **F108 = CFM56-2B\*\*\***
    - **TF33 = JT3D-7\*\* DERs considered on a case by case basis.**
    - **TF34 = CF34**
    - **J85 = CJ610**
    - **T56 = T501-D**
      - **In order to be successful we need visibility of commercial availability**
  - **Life Limited Parts (LLPs) currently F108 ONLY**
  - **Other non-propulsion items that you may bring to our attention, your input is valuable**



## Contact Information

- AFSC Small Business Office

- Website: <http://www.tinker.af.mil/sbo.asp>
- Email: [afsc.sb.workflow@tinker.af.mil](mailto:afsc.sb.workflow@tinker.af.mil)
- Address: 3001 Staff Drive Suite 1AG 85A  
Tinker AFB, Oklahoma  
73145-3009

- SASPO

- Website: <http://www.tinker.af.mil/Home/429SCMSSASPO.aspx/>
- Email: [429scms.workflow.saspo@us.af.mil](mailto:429scms.workflow.saspo@us.af.mil)
- Address: 3001 Staff Drive Suite 2AC4 94B  
Tinker AFB, Oklahoma  
73145-3009



# Questions





# **448th Supply Chain Management Wing**



## **Reverse Engineering, Repair Development and Additive Manufacturing Program 15 Aug 2019**



**Myron O. Knight  
429 SCMS – SASPO  
405-734-7809  
[myron.knight@us.af.mil](mailto:myron.knight@us.af.mil)**





# PURPOSE

- **Objective:** Reduce Air Force supply chain costs/risks through increased competitive sourcing strategies
  - Focus on creating competition to improve affordability and supportability
- **Plan:** Implement Wing Approved approach to the identification and management processes of CER engineering projects
- **Projected results:** Strategic identification, prioritization and tracking of engineering project candidates and capability to report actual ROI results

50% of 448 SCMW Spares Buys and  
**60% of Repairs are Sole Source**

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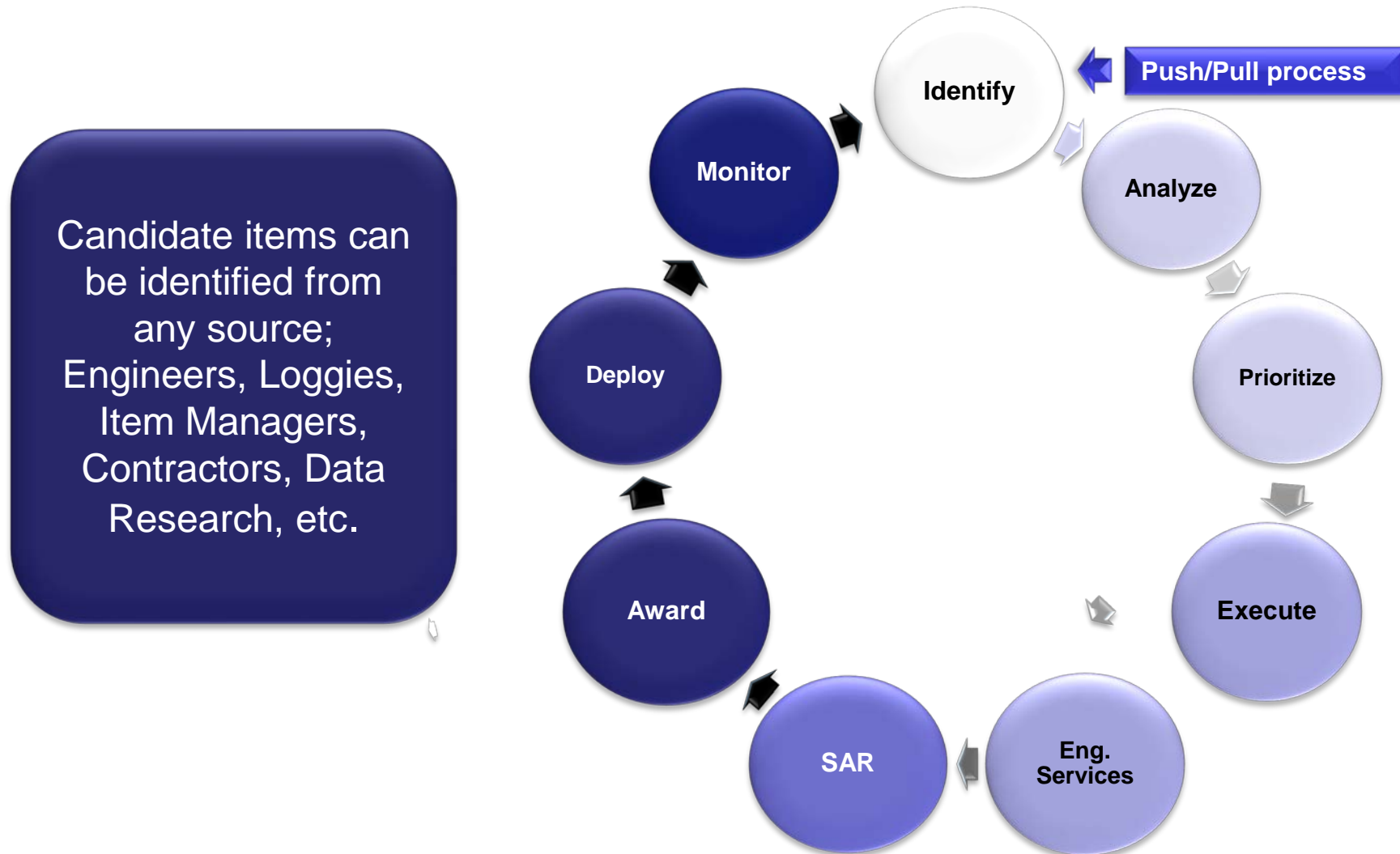
# 448 SCMW RE/RD/AM Plan

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- 448 SCMW is investing in our supply chain
  - Acquire Data
  - Increase Competition
- Able to use CSAG dollars to create competition
  - Working Capital Fund
  - Reliability, Accessibility, Maintainability – Competition Projects (RAM-C)
- Enterprise Level (Robins, Hill, Tinker)
- Working to identify candidate item

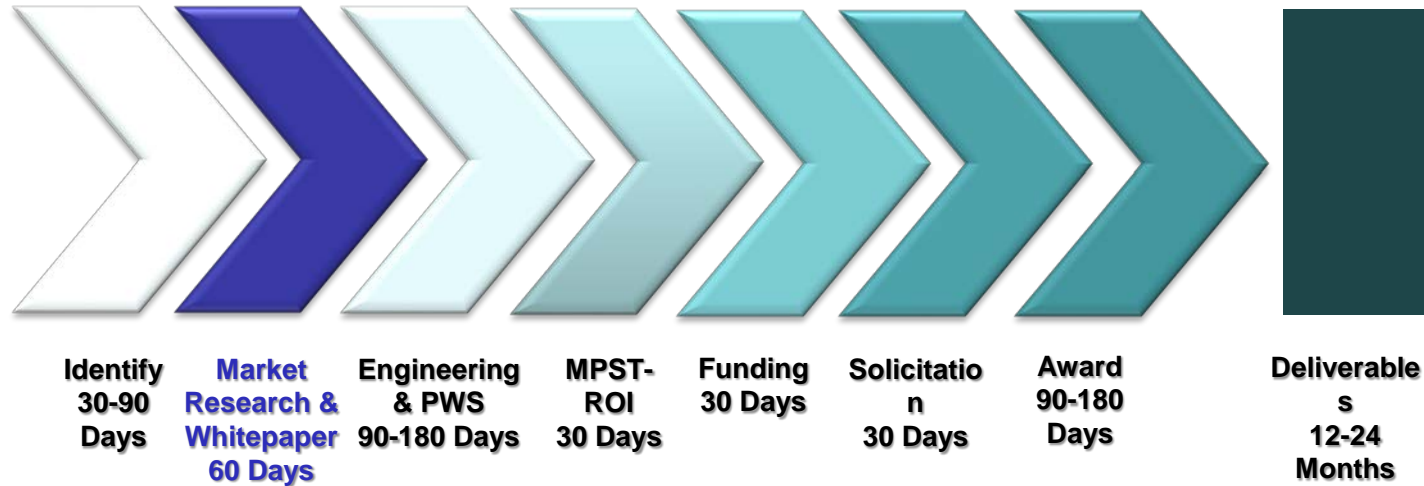


# RE/RD/AM PROCESS



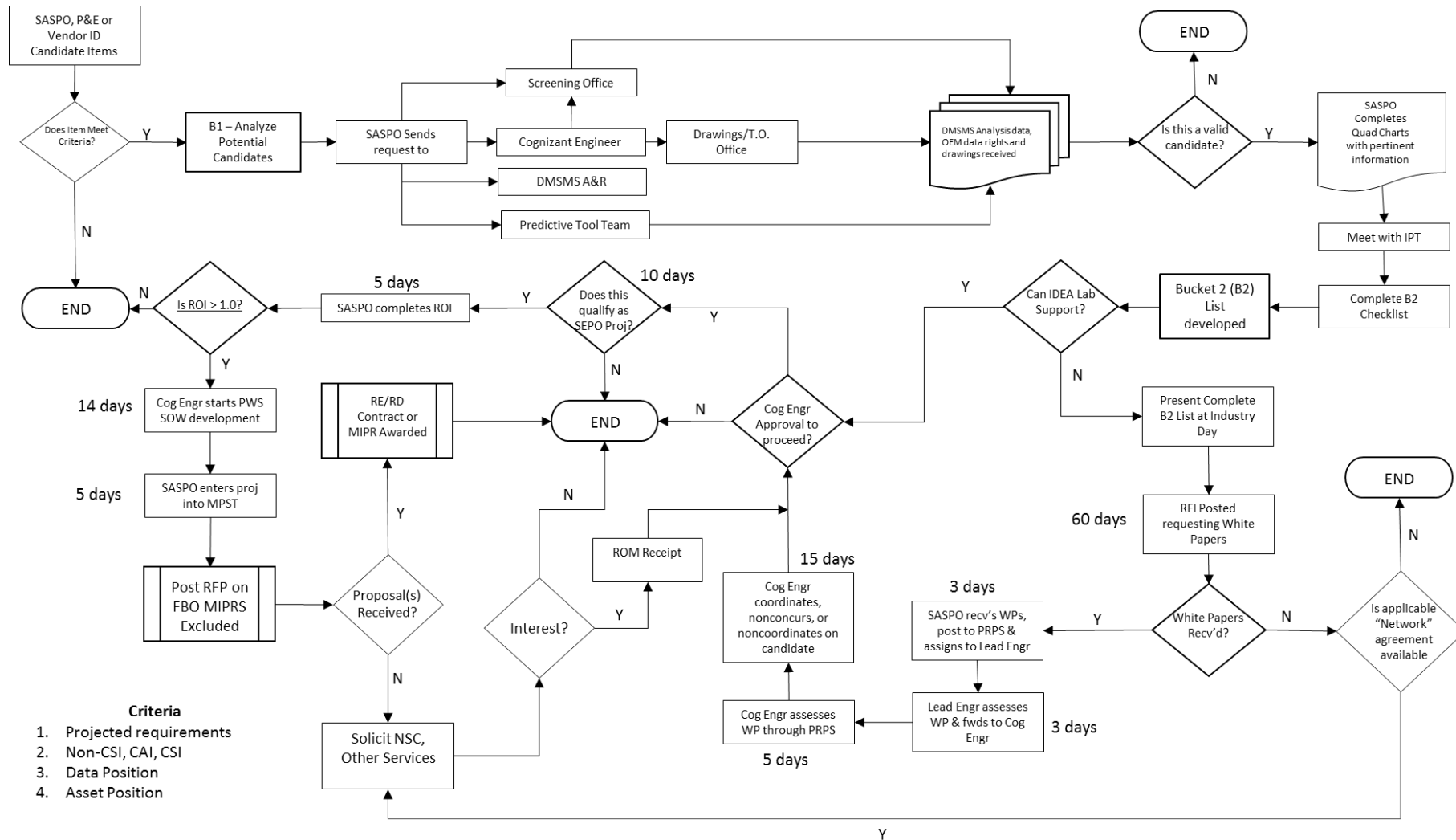


# RE/RD/AM PROJECTED TIMELINE 1 - 3 YEARS



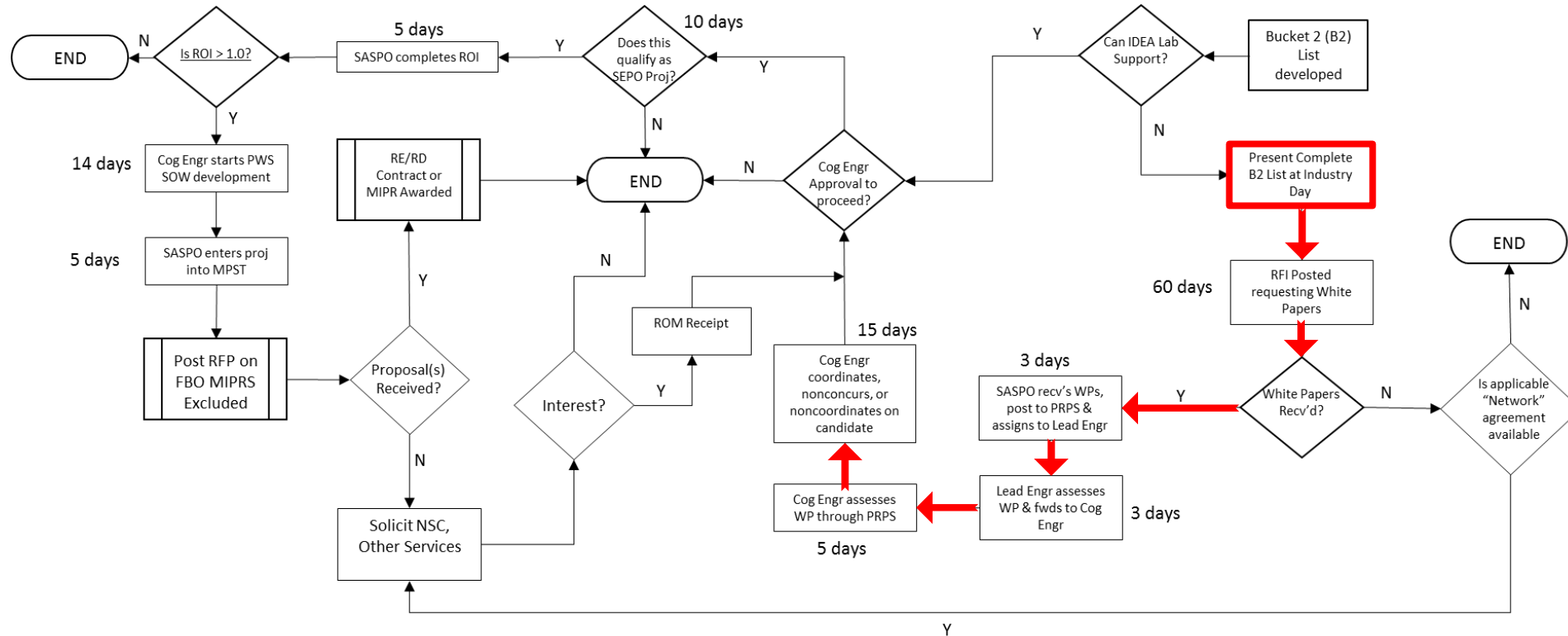


# RE/RD/AM PROCESS FLOW





# WHITE PAPER PROCESS FLOW





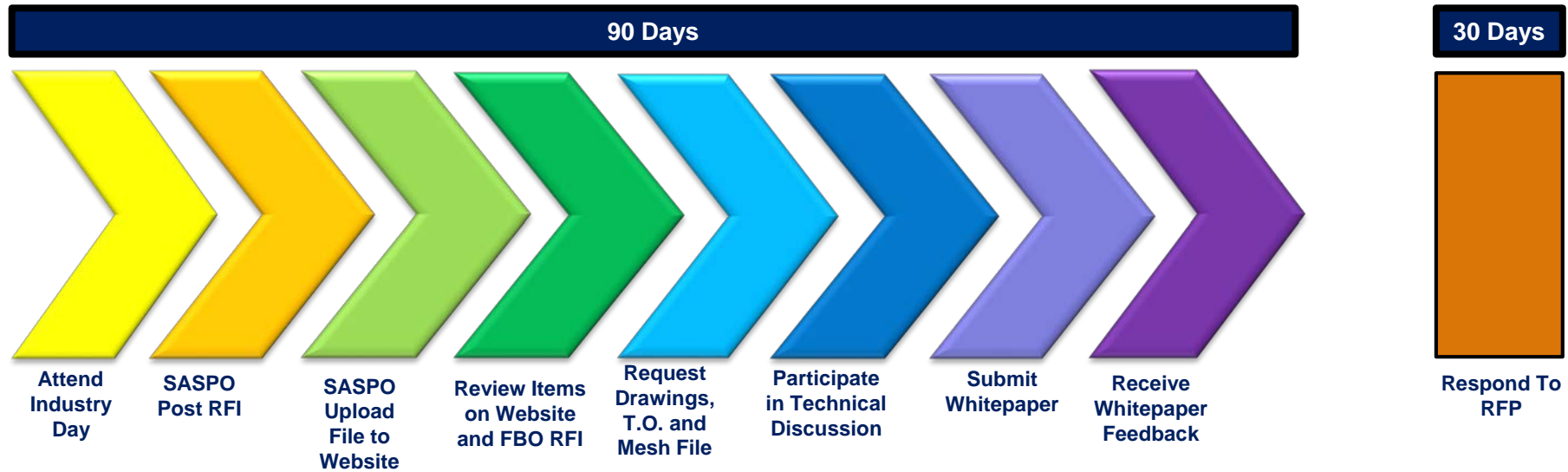
# ***WHITEPAPER GUIDELINES***

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- **Company Information**
  - Cage Code
  - Capabilities
  - Facilities
  - Experience
- **Background/Problem Statement**
  - Nomenclature, NSN(s) and Part Number(s)
  - Equipment List (if applicable)
  - Type
    - RE, RD, AM or Manf.
  - Identify Problem/Problem Statement
- **Solution**
- **Deliverables**
- **Rough Order Magnitude (ROM)**
- **Schedule**
- **Conclusion**
- **Due 60 Days from RFI**



# VENDOR 90 DAY PROCESS FLOW TIMELINE





# ***WHAT WE ARE LOOKING FOR?***

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- Partner to produce a prototype
- Provide a full Tech Data Package (TDP)
- Maintaining the same Form/Fit/Function
- Reduce risk/cost/leadtime
- Resolve obsolescence
- Cooperative partnership
- Open communications
- Cost effective readiness





# ***FUTURE OPPORTUNITIES***



- As this program grows it will experience changes
- 448 SCMW will continue to identify opportunities
- Post Sources Sought Synopses (SSS) and/or Requests For Information (RFIs) on Federal Business Opportunities (FBO)
- Additional Industry Days Advertised on FBO and SASPO Website
  - Robins AFB – March
  - Hill AFB – June
  - Tinker AFB - August
- Open for suggestions or white papers on candidate or other items



# ***EXPECTATIONS***



## Interested Companies:

- Submit a no-cost white paper stating interest with estimated costs and schedule
- Request the Engineering Data List (EDL)
- Procure all available data from the Public Sales Office
- Work with SASPO Program Manager and Engineer to identify the requirements
  - Test and Qualification
  - Tooling
  - Specifications



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# Questions

**Mr. Myron O. Knight**  
**429 SCMS – SASPO**  
**405-734-7809**  
**[myron.knight@us.af.mil](mailto:myron.knight@us.af.mil)**



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## ***FAALC Parts Quad Charts***



Mike Monroney Aeronautical Center  
Oklahoma City, OK  
Radar Product Division AML - 2000

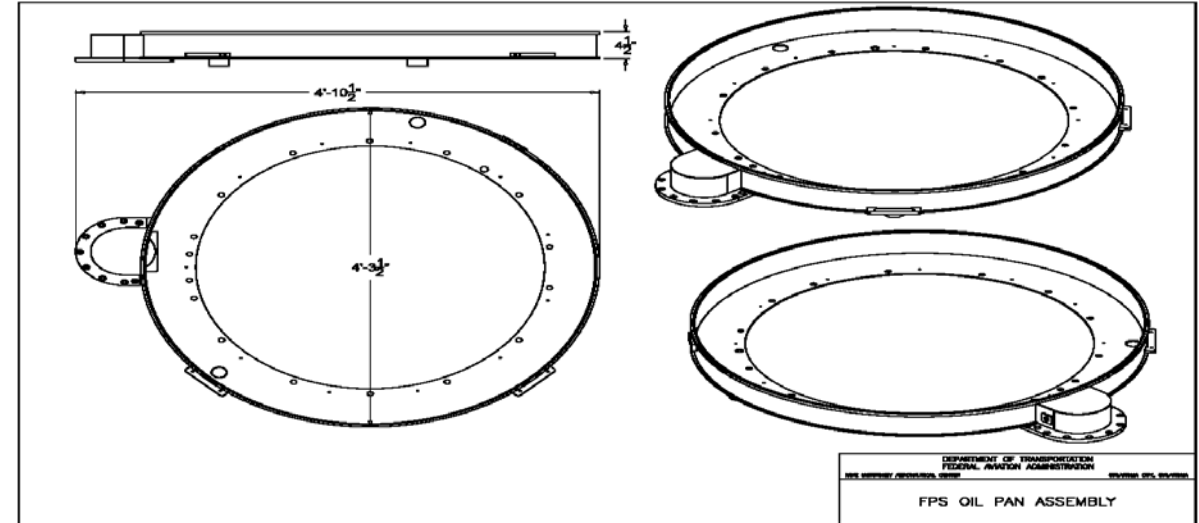


# FPS Oil Pan

## Alternate Sourcing (New Buy)



MDS/TMS: **Fixed Position System (FPS)**  
 Noun: **FPS Oil Pan**  
 NSN: **N/A**  
 P/N: **185N-126**  
 Buy Price: **N/A**  
 Date of Last Procurement: **None since original systems installed, 1980's**  
 Repair Price: **N/A**  
 Surplus Available: **0**  
 QPA Appl %: **10 (100%)**  
 Replacement Rate %: **~2 per year**



### Out Year Requirements (Buy/Repair)

FY20: <b>2</b>	FY21: <b>1</b>	FY22: <b>2</b>	FY23: <b>1</b>	FY24: <b>2</b>
FY20: <b>0</b>	FY21: <b>0</b>	FY22: <b>0</b>	FY23: <b>0</b>	FY24: <b>0</b>

### Details/Issues

- **FPS Oil Pan Assembly is made up of 10, separate steel parts welded together**
- **Drawings for all parts and final assembly available**
- **Low demand historically but no known supply source**



# FPS Oil Pan

## Alternate Sourcing ( New Buy)



Material: **Steel (mild)**

Dimensions: **52"x5" (nominal)**

Criticality Code: **Medium**

Drawings Avail: **Yes**

Drawing #: **DE-B-4704**

T.O. Avail: **No**

T.O. #:

Drawing CAGE Code: **N/A**

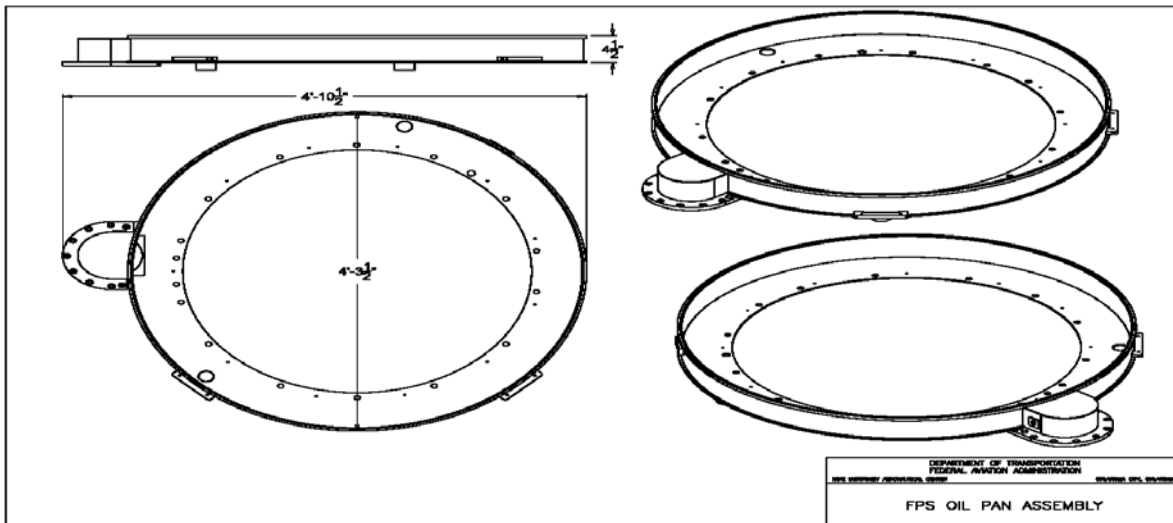
Mesh File Avail: **No**

#:

Next Higher Assembly: **FPS Pedestal**

DMSMS Report:

- **Obsolete part**
- **Single point of failure**
- **No supply source**



If you would like to participate in the Technical Discussion, on **18 Sep 2019, at 8:30-9:00 a.m. (CST)**, provide the following information NLT **11 Sep 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

1. Company, address, name(s), email(s), phone
2. Questions for Engineering



# Mode S



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# Mode-S CPME Diplexer

## Alternate Sourcing (New Buy)



MDS/TMS: **Mode-S**  
 Noun: **Diplexer**  
 NSN: **5985-01-365-6255**  
 P/N: **044547-0001, AY-C77S**  
 Buy Price: **\$702.00**  
 Date of Last Procurement: **N/A**  
 Repair Price: **Expendable**  
 Surplus Available: **0**  
 QPA Appl %: **100%**  
 Replacement Rate %: **5 per year**



Out Year Requirements (Buy/Repair)				
FY20: <b>5</b>	FY21: <b>5</b>	FY22: <b>5</b>	FY23: <b>5</b>	FY24: <b>5</b>
FY20: <b>0</b>	FY21: <b>0</b>	FY22: <b>0</b>	FY23: <b>0</b>	FY24: <b>0</b>

Details/Issues

- **Drawings and specifications are available**
- **One Time Buy**



# Mode-S CPME Diplexer

## Alternate Sourcing (New Buy)



Material: **Aluminum per 6061-T6 (Package)**

Dimensions: **2.02" W x 1.03" H x 5.05" L Total**

Criticality Code: **Critical**

Drawings Avail: **Yes**

Drawing #: **044547**

T.O. Avail: **No**

T.O. #:

Drawing CAGE Code: **64537**

Mesh File Avail: **N/A**

#:

Next Higher Assembly: **Mode-S CPME (P/N 098547-0100)**

DMSMS Report:

- **Obsolete part**
- **Single point failure item**
- **No supply source**



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1. Company, address, name(s), email(s), phone
2. Questions for Engineering



# ASR – 9



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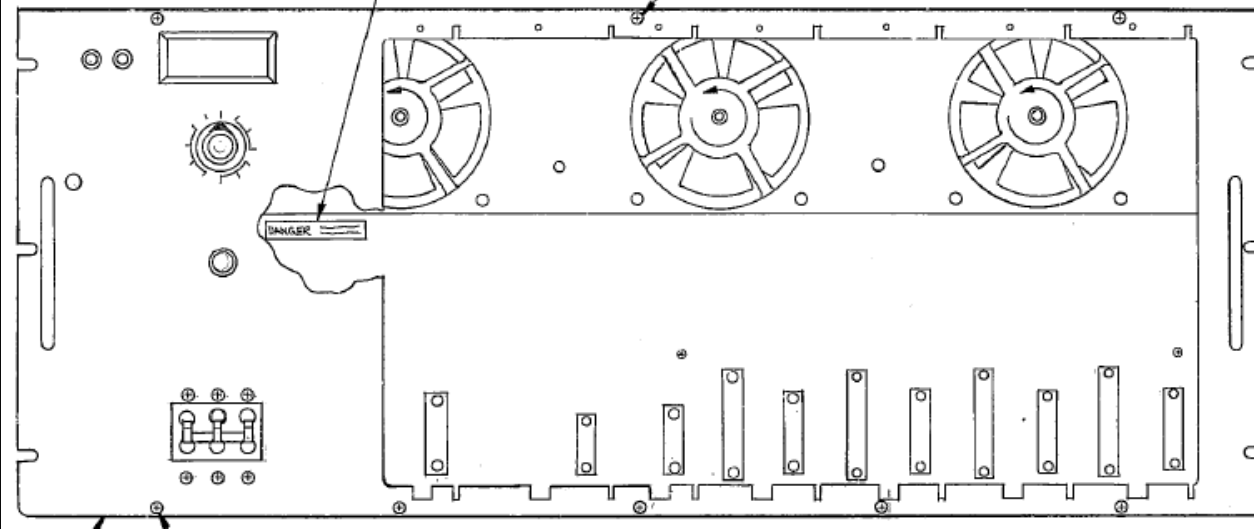


# ASR-9 MVPS

## Alternate Sourcing (New Buy)



MDS/TMS: **ASR-9**  
 Noun: **Chassis Assy**  
 NSN: **6130-01-408-7266**  
 P/N: **852600**  
 Buy Price: **\$17,303.00**  
 Date of Last Procurement: **Never procured after purchase from OEM, 1980s**  
 Repair Price: **Varies, Repaired In-House. Generally, repairs are made to subsystems**  
 Surplus Available: **0**  
 QPA Appl %: **100%**  
 Replacement Rate %: **~8 per year**



### Out Year Requirements (Buy/Repair)

FY20: <b>0</b>	FY21: <b>7</b>	FY22: <b>0</b>	FY23: <b>0</b>	FY24: <b>0</b>
FY20: <b>0</b>	FY21: <b>0</b>	FY22: <b>0</b>	FY23: <b>0</b>	FY24: <b>0</b>

### Details/Issues

- **124 Total Parts in Full Assembly**
- **Drawings for CCAs, Fabrication, and wiring lists available**
- **Low Demand Item Historically**
- **One Time Buy**
- **Machine Work Needs to be Precise**



# ASR-9 MVPS

## Alternate Sourcing ( New Buy)



Material: **6061-T6 AL Alloy, 5052-H32 AL Alloy**

Dimensions: **31.19" W x 12.75" H x 16.78" L Total**

Criticality Code: **Critical**

Drawings Avail: **Yes**

Drawings #: **D852600, D852617,  
D852614, D852621,  
D852622**

T.O. Avail:

T.O. #:

Drawing CAGE Code: **09062**

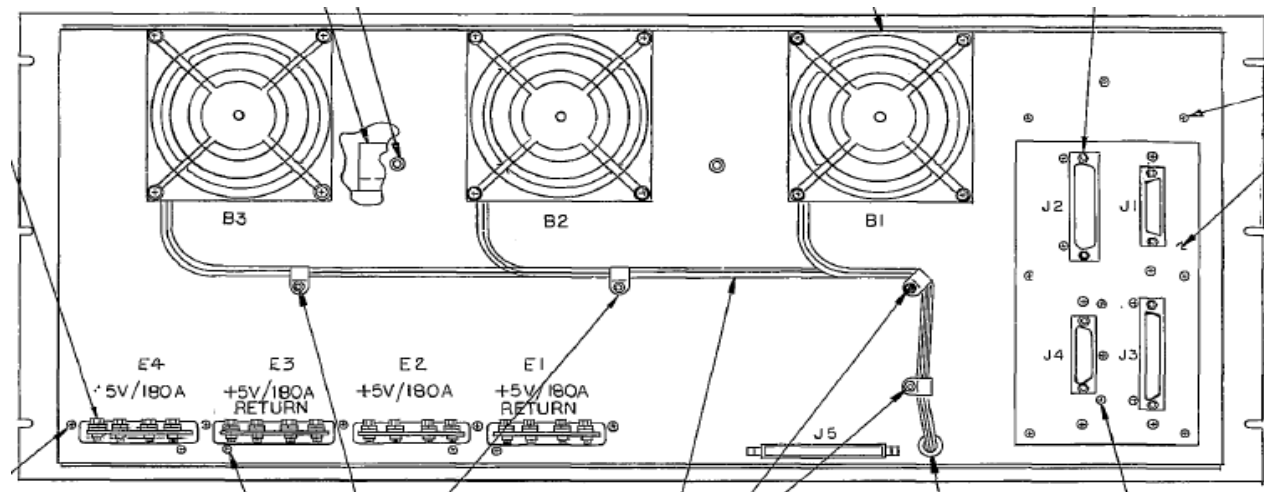
Mesh File Avail: **No**

#:

Next Higher Assembly: **ASR-9 Receiver Cabinet**

DMSMS Report:

- **Obsolete part**
- **Demand is increasing**
- **Single point failure item**
- **No supply source**



If you would like to participate in the Technical Discussion, on **18 Sep 2019, at 8:30-9:00 a.m. (CST)**, provide the following information NLT **11 Sep 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

1. Company, address, name(s), email(s), phone
2. Questions for Engineering



# ASR -11



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# ASR-11 Unit Amp

## Alternate Sourcing (New Buy)



MDS/TMS: **ASR -11**

Noun: **Unit Amp RF**

NSN: **5996-01-531-3546**

P/N: **G581630-X**

Buy Price: **N/A**

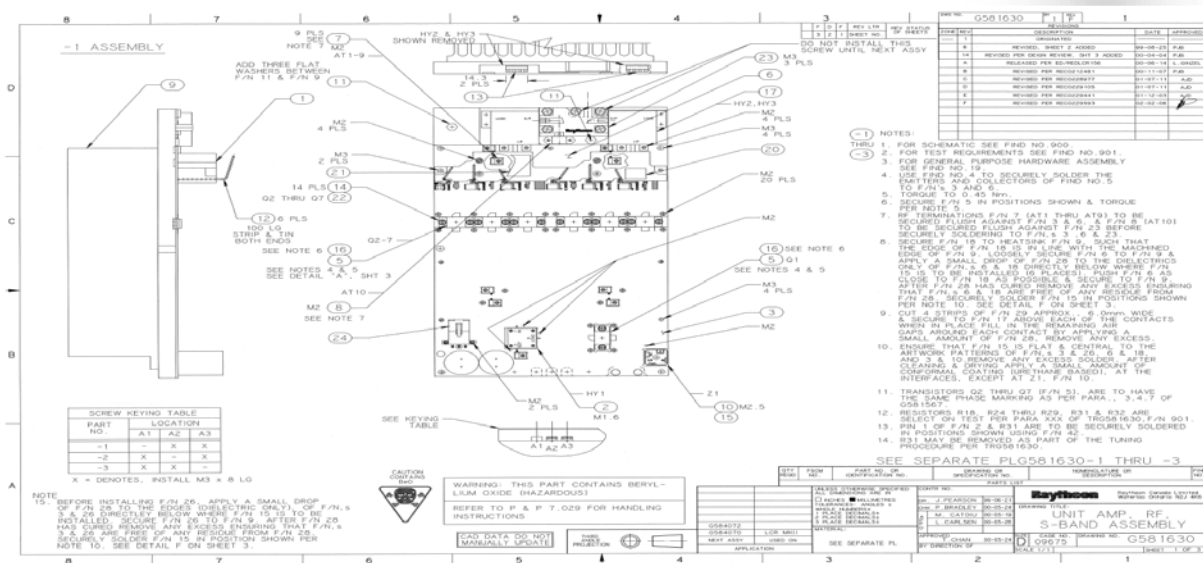
Date of Last Procurement: **N/A**

Repair Price: **\$8357.96**

Surplus Available: **N/A**

QPA Appl %: **N/A**

Replacement Rate %: **~10 per year**



### Out Year Requirements (Buy/Repair)

FY20: **10** FY21: **10** FY22: **10** FY23: **10** FY24: **10**

FY20: **0** FY21: **0** FY22: **0** FY23: **0** FY24: **0**

### Details/Issues

- **Raytheon, OEM, can't manufacture new units**
- **Affects next higher assembly, which become Beyond Economical Repair, or BER. (RF Amplifier and Driver module)**



# ASR-11 Unit Amps

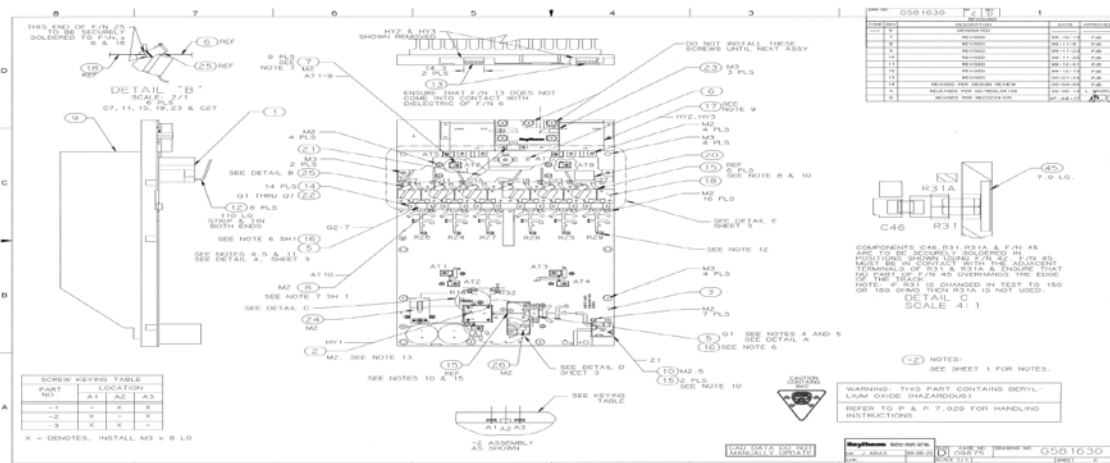
## Alternate Sourcing (New Buy)



Material:  
 Dimensions:  
 Criticality Code:  
 Drawings Avail:  
 T.O. Avail:  
 Drawing CAGE Code:  
 Mesh File Avail:  
 Next Higher Assembly:

Drawing #:  
 T.O. #:  
 #:

DMSMS Report:



If you would like to participate in the Technical Discussion, on **18 Sep 2019, at 8:30-9:00 a.m. (CST)**, provide the following information NLT **11 Sep 2019**  
[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

1. Company, address, name(s), email(s), phone
2. Questions for Engineering





# F-15 Eagle



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# Scale Dial

Reverse Engineering

Tinker AFB - 422 SCMS



MDS/TMS: **F-15/N/A**

Noun: **Scale Dial**

NSN: **5355-01-067-4289**

PN: **477339-1**

Buy Price: **\$2,163.50**

Date of Last Procurement: **April-2014**

Repair Price: **N/A**

AAC: **V**

Surplus Available: **No**

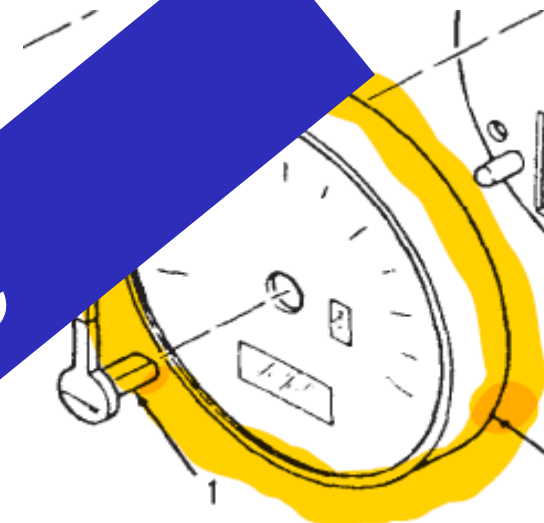
QPA & Appl %: **1 @ 100%**

Replacement Rate%: **3% (About Two a Year)**

Out Year Requirements (Buy/Repair)

FY20: **1** FY21: **1** FY22: **1** FY23: **1** FY24: **1**

FY20: **0** FY21: **0** FY22: **0** FY23: **0** FY24: **0**



**Supportable**

## Details/Issues

- **No current organic or contract procurement**
- **Low replacement part, not aware of any workarounds**
- **Recently determined obsolete**

761 (N)

762 (N)

EDL (N)

RDL (N)



# Scale Dial

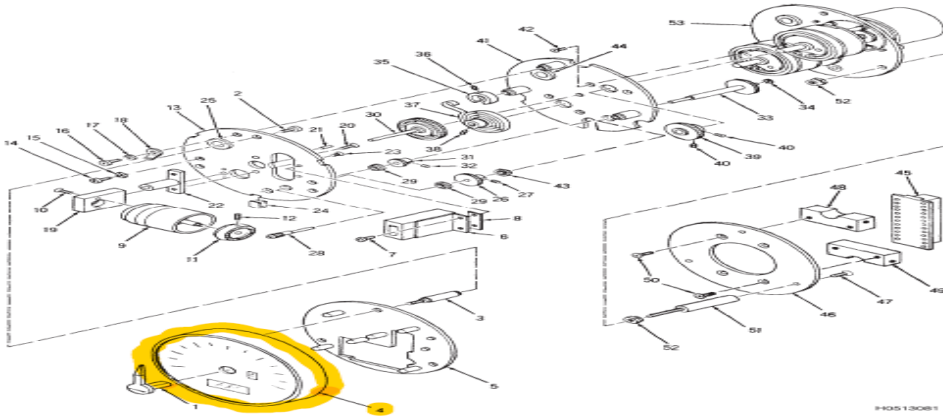
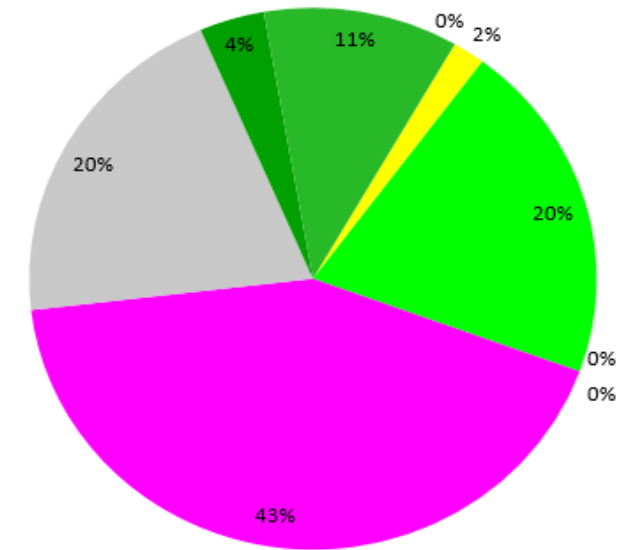
Reverse Engineering  
Tinker AFB - 422 SCMS



AMC/AMSC: **3/D**                      RMC/RMSC: **N/A / N/A**  
 Material: **Type of Plastic**  
 Dimensions: **No Dimensions Available**  
 Criticality Code: **X**  
 Drawings Avail: **No**                      Drawings#: : **477339**  
 T.O. Avail: **No**                              T.O.#: **5L6-3-66-3**  
 Budget Code: **9**  
 Cage Code: **89305**  
 Mesh File Avail: **No**                      #  
 Next Higher Assembly: **Mechanical Subassembly,**  
**NSN 6680-01-059-4638**

## DMSMS Report

Obsolete	0
Sole Source	1
Two or More	11
Unknown	0
Proprietary	0
Logistics	23
NA	11
Build To Print	2
Common Industrial Item	6



If you would like to participate in the Technical Discussion on **21 Aug 2019, at 2:30-3:00 p.m. (CST)**, provide the following information NLT **19 Aug 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering

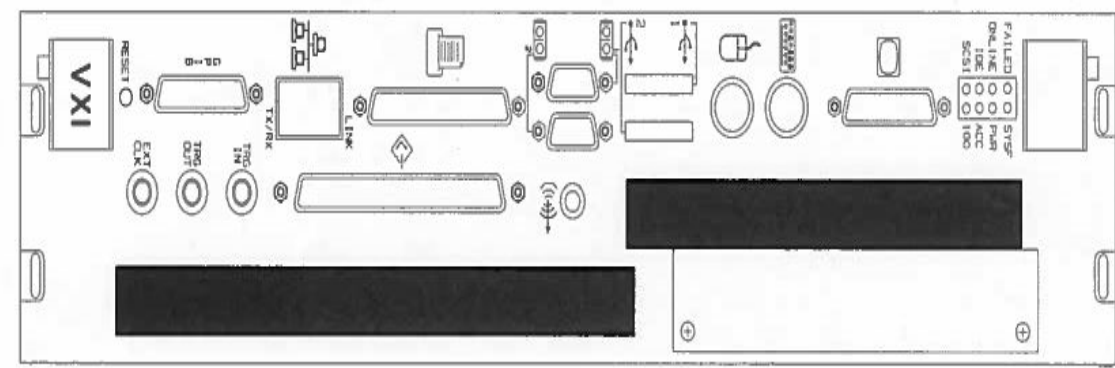


# Electronic Plug-In Unit



**Repair Development**  
**Robins AFB – 410 SCMS**

MDS/TMS: **F-15 / TMS: N/A**  
 Noun: **Electronic Plug-In Unit**  
 NSN: **6625-01-552-7652**  
 PN: **778295-00/OPT778469-256** PN CAGE: **64667**  
 Buy Price: **\$32,005.86**  
 Date of Last Procurement: **9/23/2010**  
 Repair Price: **\$2,996.01**  
 AAC: **V**  
 Surplus Available: **No via ILSmart**  
 QPA & Appl %: **2 @ 75%**  
 Replacement Rate%: **0%**



Out Year Requirements (Buy/Repair)

FY20: <b>2</b>	FY21: <b>3</b>	FY22: <b>2</b>	FY23: <b>3</b>	FY24: <b>2</b>
FY20: <b>5</b>	FY21: <b>4</b>	FY22: <b>4</b>	FY23: <b>4</b>	FY24: <b>4</b>

- Details/Issues
- **Item is a Bus Controller**
  - **Repair source no longer available**
  - **OEM (Honeywell) owns the technical data**
  - **Currently there are MICAPs for 6 assets with back orders for 12 units**

761 (Y)	762 (Y)	EDL (Y)	RDL (Y)
---------	---------	---------	---------



# Electronic Plug-In Unit

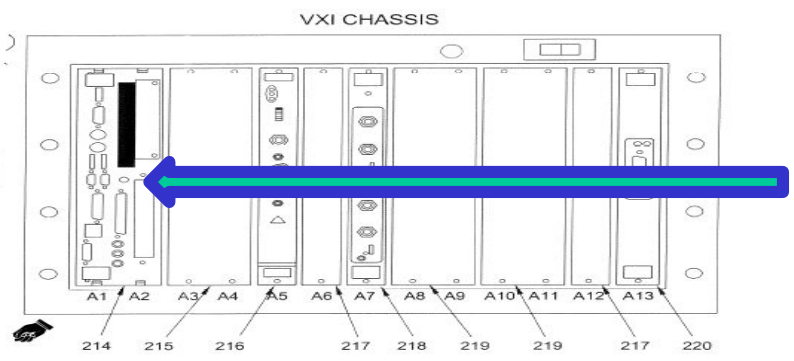


**Repair Development**  
**Robins AFB – 410 SCMS**

AMC/AMSC: **2 / G**      RMC/RMSC: **3 / R**  
 Material: **NA**  
 Dimensions: **NA**  
 Criticality Code: **X**  
 Drawings Avail: **No**      Drawings#: **5160490**  
 T.O. Avail: **No**      T.O.#: **33D7-44-353-4**  
 Budget Code: **8**  
 Drawing Cage Code: **017N4**  
 Mesh File Avail: **No**      #  
 Next Higher Assembly: **F-15 Antenna Test Station/  
 AN/GSM-228**

## DMSMS Report

**DMSMS Report Not Available**



**Electronic Plug-In Unit**

If you would like to participate in the Technical Discussion on **18 Sep 2019, at 9:30-10:00 a.m. (CST)**, provide the following information NLT **11 Sep 2019**  
[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# *T-6 Texan*



*Supplying Warfighter Dominance*



# Inclinometer Assembly

Alternate Source - New Buy

Tinker AFB - CLS



MDS/TMS: **Beechcraft T-6A / N/A**

Noun: **Inclinometer Assembly**

NSN: **6610-01-482-8865**

PN: **050-03402-0000**

Buy Price: **Unknown**

Date of Last Procurement: **Unknown**

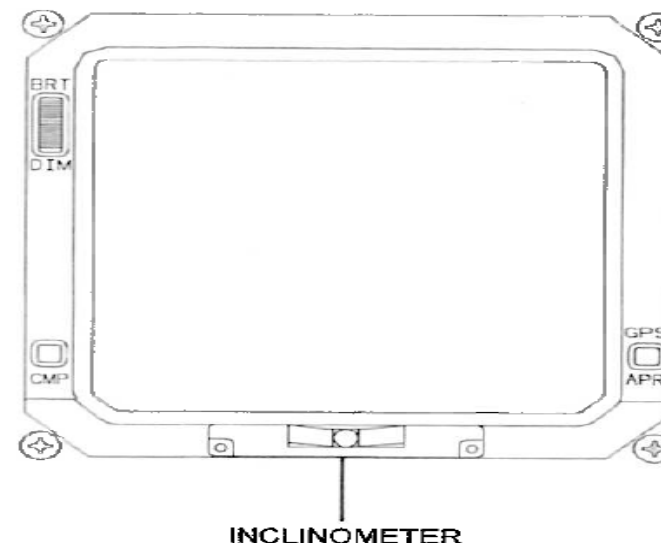
Repair Price: **Unknown**

AAC: **N/A**

Surplus Available: **No via ILSmart**

QPA & Appl %: **1 @100%**

Replacement Rate%: **Unknown**



Electronic Attitude and Direction Indicator

## Out Year Requirements (Buy/Repair)

FY20: <b>20</b>	FY21: <b>20</b>	FY22: <b>20</b>	FY23: <b>20</b>	FY24: <b>20</b>
FY20: <b>0</b>	FY21: <b>0</b>	FY22: <b>0</b>	FY23: <b>0</b>	FY24: <b>0</b>

## Details/Issues

- **High Failure Rate**
- **Impact to Repair is Consumable Item**
- **Non Mission Capable Supply Impact 2019**
- **0 Spares on Inclinometer Assembly**
- **Model 3000 (T-6A)**
- **Requirement from Textron Aviation Defense**

761 (N)

762 (N)

EDL (N)

RDL (N)



# Inclinometer Assembly

Alternate Source - New Buy

Tinker AFB - CLS



AMC/AMSC: **N/A / N/A**

RMC/RMSC: **N/A / N/A**

Material: **Unknown**

Dimensions: **Unknown**

Criticality Code: **X**

Drawings Avail: **No**

Drawings#: **Proprietary**

T.O. Avail: **No**

T.O.#: **Proprietary**

Budget Code: **N/A**

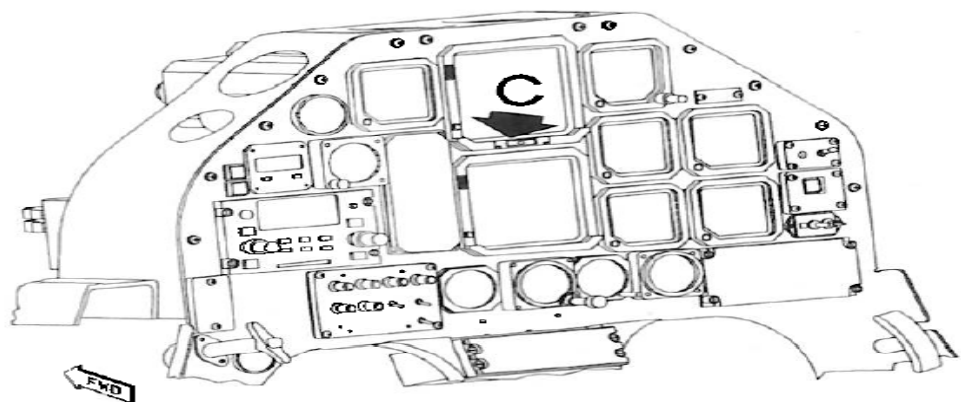
Drawing Cage Code: **22373**

Mesh File Avail: **No** #

Next Higher Assembly: **Beechcraft T-6A**

## Description and Operation

- **Inclinometer mounts to the front of the (EADI)**
- **Includes a ball which is suspended in an alcohol filled chamber**
- **Movement of the ball indicates coordinated turn rate to the pilot**
- **Inclinometer is a mechanical Instrument that has no electrical requirement**
- **Receives indirect lighting from the (EADI)**
- **The potentiometer on the left forward switch panel controls illumination for the Inclinometer**



If you would like to participate in the Technical Discussion on **21 Aug 2019, at 2:00-2:30 p.m. (CST)**, provide the following information NLT **19 Aug 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering





# E-3 AWACS



*Supplying Warfighter Dominance*



# Radio Mounting Tray

Reverse Engineering

Tinker AFB - LCMC



MDS/TMS: **E-3/N/A**

Noun: **Radio Mounting Tray**

NSN: **5975-01-536-3778**

PN: **822-1855-001**

Buy Price: **\$6,628.05**

Date of Last Procurement: **5/1/2007**

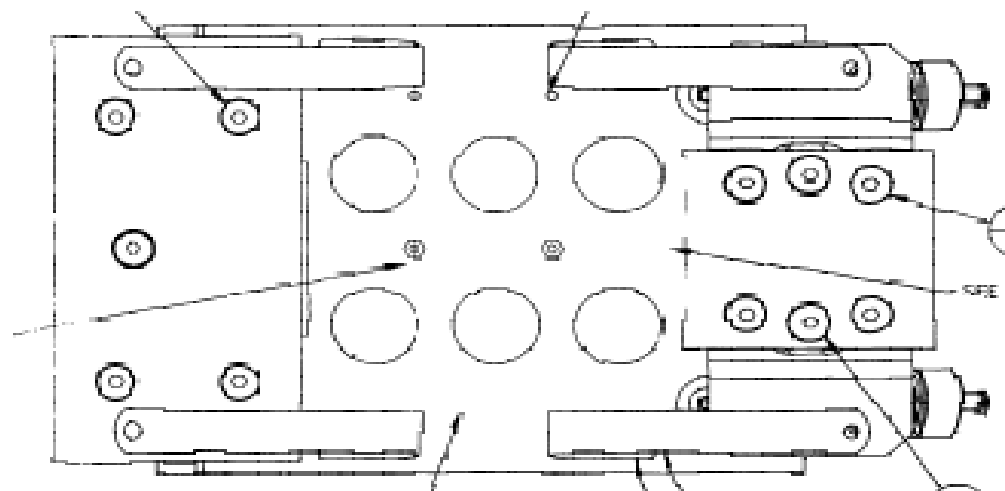
Repair Price: **N/A**

AAC: **V**

Surplus Available: **No via ILSmart**

QPA & Appl %: **2@100%**

Replacement Rate%: **NA**



## Out Year Requirements (Buy/Repair)

FY20: **12**    FY21: **0**    FY22: **0**    FY23: **0**    FY24: **0**

FY20: **0**    FY21: **0**    FY22: **0**    FY23: **0**    FY24: **0**

## Details/Issues

- **Lifetime buy to support E-3 life span**
- **Source of supply DLA/SMS**

761 (**N**)

762 (**N**)

EDL (**N**)

RDL (**N**)



# Radio Mounting Tray

Reverse Engineering

Tinker AFB - LCMC



AMC/AMSC: **3/B**

RMC/RMSC: **N/A / N/A**

Material: **Unknown**

Dimensions: **Unknown**

Criticality Code: **X**

Drawings Avail: **Yes**

Drawings#: **204-44985**

T.O. Avail: **Yes**

T.O.#: **1E-3A-4-23-1**

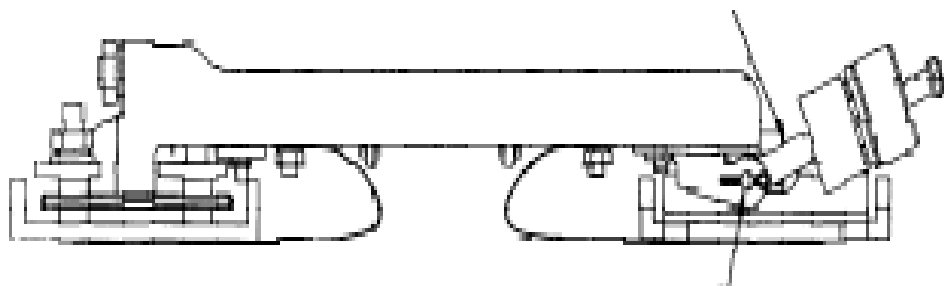
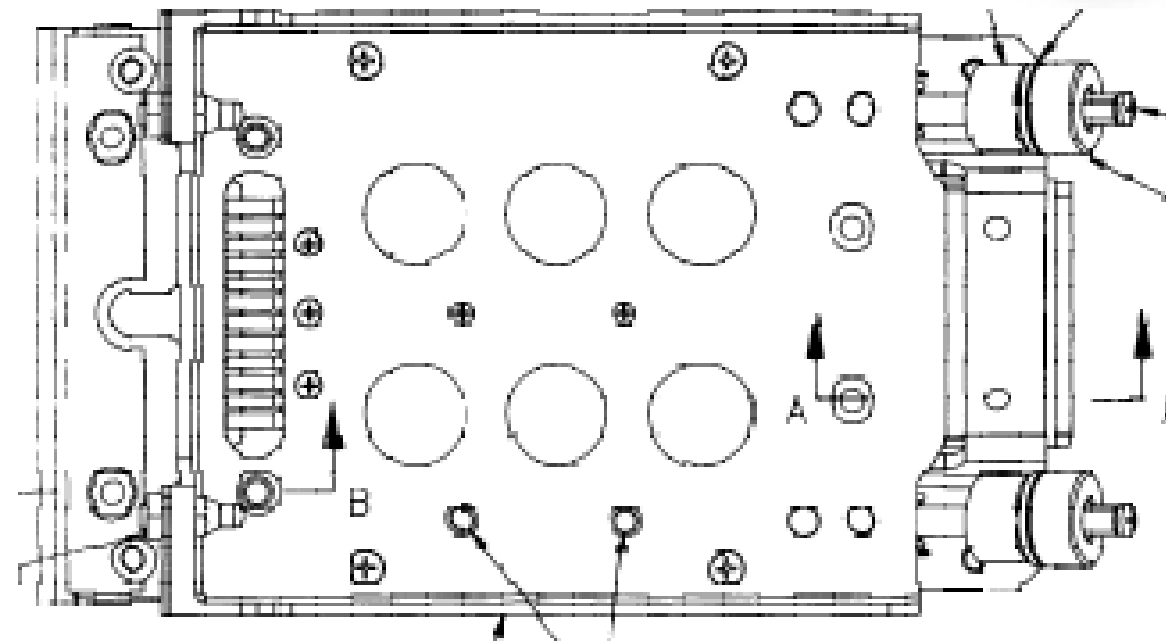
Budget Code: **9**

Drawing Cage Code: **81205**

Mesh File Avail: **No** #

Next Higher Assembly: **Shelf Assembly, E19-2**

**Communication Equipment**



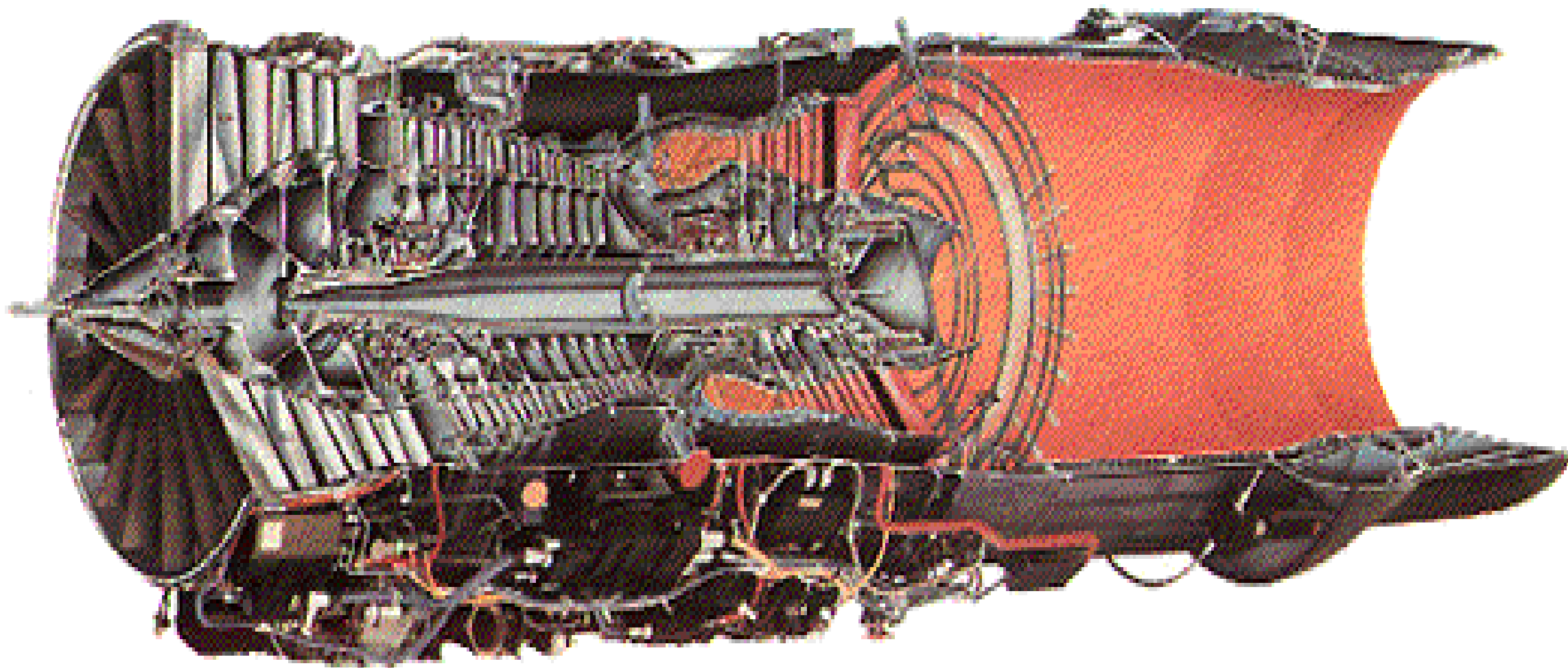
If you would like to participate in the Technical Discussion on **17 Sep 2019, at 10:00 – 10:30 a.m. (CST)**, provide the following information NLT **11 Sep 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# F100-PW-229



*Supplying Warfighter Dominance*

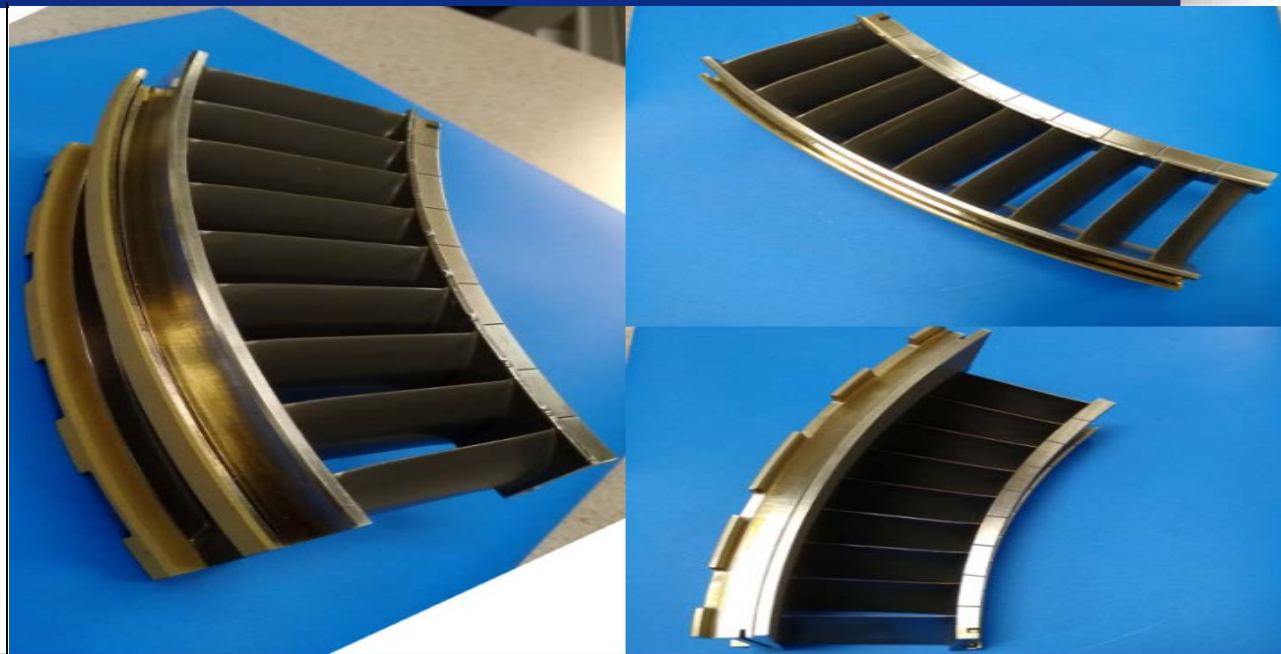


# Compressor Vane Segment



**Alternate Source (Repair)**  
Tinker AFB - 421 SCMS

MDS/TMS: **F-15 & F-16/F100**  
 Noun: **Vane Segment, Compressor**  
 NSN: **2840-01-619-7379**  
 PN: **4089078-03**  
 Buy Price: **\$7,441.47**  
 Date of Last Procurement: **04/26/2018**  
 Repair Price: **\$2,902.17**  
 AAC: **C**  
 Surplus Available: **Yes via ILSmart (2 each/NE)**  
 QPA & Appl %: **2 @ 100**  
 Replacement Rate%: **100**



### Out Year Requirements (Buy/Repair)

FY20: <b>00</b>	FY21: <b>00</b>	FY22: <b>22</b>	FY23: <b>04</b>	FY24: <b>40</b>
FY20: <b>00</b>	FY21: <b>00</b>	FY22: <b>32</b>	FY23: <b>34</b>	FY24: <b>37</b>

### Details/Issues

- **Hot Section Module, Turbine Disk, Multiple NSNs**
- **Part is in the core module of the F100-229 engine**
- **Legacy NSN: 2840013674827 (AAA) P/N: 4083978-03 currently in use/both configurations require repair**
- **There is a difference in the coating for Legacy and New NSN's**
- **Interested vendors should submit a Source Approval Request (SAR)**

761 (Y)	762 (N)	EDL (Y)	RDL (N)
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# Compressor Vane Segment



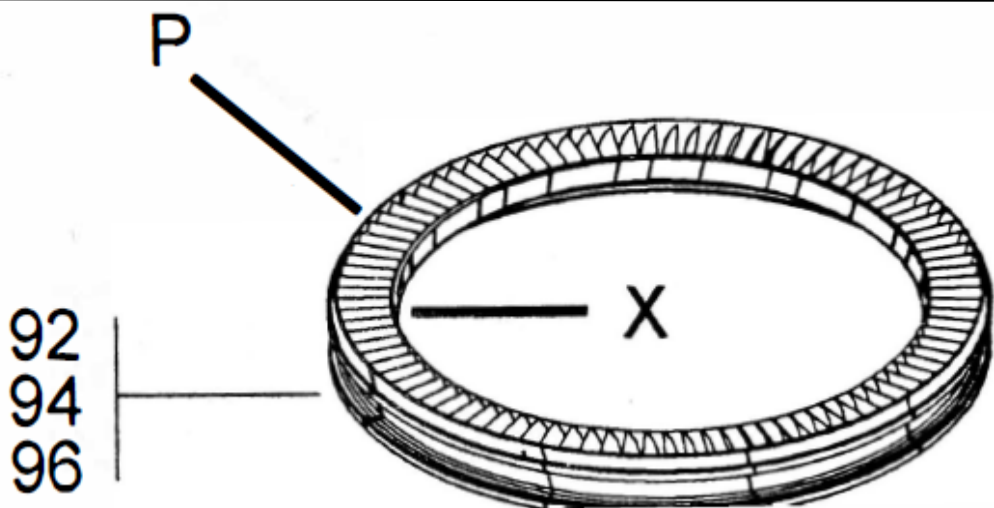
Alternate Source (Repair)

Tinker AFB – 421 SCMS

AMC/AMSC: **2C**                      RMC/RMSC: **NA**  
 Material: **Nickel Alloy**  
 Dimensions: **8.57L x 1.67W x 2.25H (Inches)**  
 Criticality Code: **F**  
 Drawings Avail: **No**                      Drawings#: **4083954**  
 T.O. Avail: **No**                              T.O.#: **2J-F100-54**  
 Budget Code: **8**  
 Cage Code: **77445**  
 Mesh File Avail: **No**                      #:  
 Next Higher Assembly: **N/A**

## DMSMS Report

**DMSMS Report Not Available**



If you would like to participate in the Technical Discussion on **17 Sep 2019, at 1:30 – 2:00 p.m. (CST)**, provide the following information NLT **11 Sep 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering

NSN:2840016197379-



# Compressor Vane Segment



**Alternate Source (Repair)**

**Tinker AFB - 421 SCMS**

MDS/TMS: **F-15 & F-16/F100**

Noun: **Vane Segment, Compressor**

NSN: **2840-01-619-8983**

PN: **4089078-02**

Buy Price: **\$2,874.19**

Date of Last Procurement: **8/25/2012**

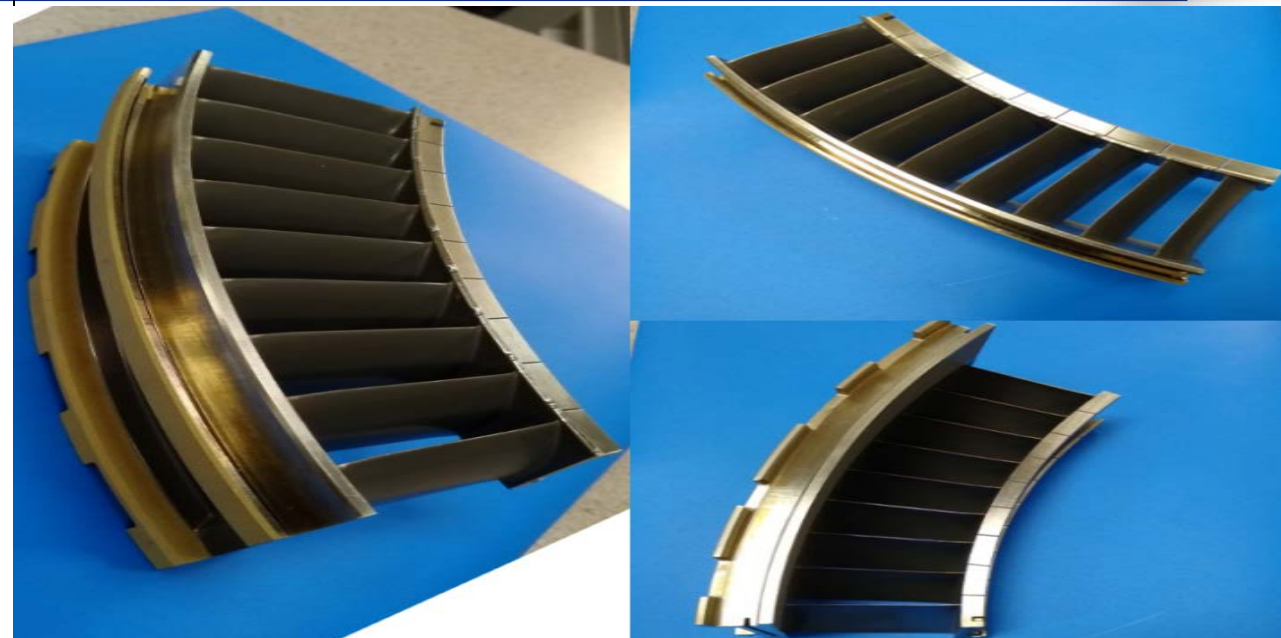
Repair Price: **\$1,264.64**

AAC: **C**

Surplus Available: **Yes via ILSmart (8 each/NE)**

QPA & Appl %: **4 @ 100**

Replacement Rate%: **100**



## Out Year Requirements (Buy/Repair)

FY20: **54** FY21: **65** FY22: **78** FY23: **62** FY24: **75**

FY20: **3** FY21: **61** FY22: **67** FY23: **68** FY24: **72**

## Details/Issues

- **Hot Section Module, Turbine Disk, Multiple NSNs.**
- **Part is in the core module of the F100-229 engine**
- **Legacy NSN: 2840013674826 (AAA) P/N: 4083978-02 currently in use/both configurations require repair**
- **There is a difference in the coating for Legacy and New NSN's**
- **Interested vendors should submit a Source Approval Request (SAR)**

761 (Y)

762 (N)

EDL (Y)

RDL (N)



# Compressor Vane Segment



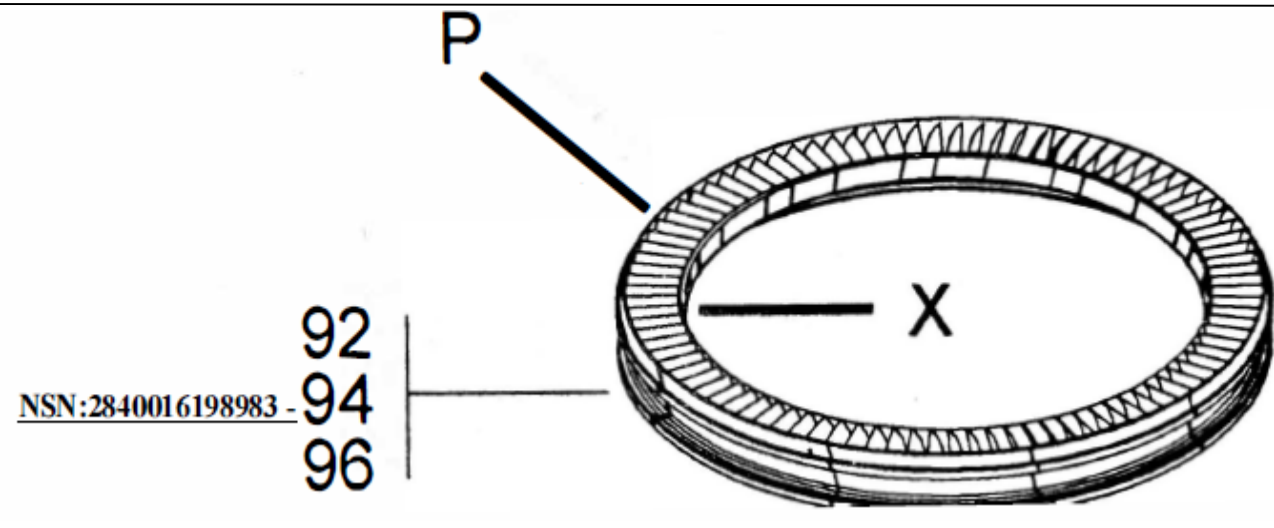
Alternate Source (Repair)

Tinker AFB - 421 SCMS

AMSC: **2C**                      RMSC: **NA**  
 Material: **Nickel Alloy**  
 Dimensions: **8.61L x 1.8W x 2.3H**  
 Criticality Code: **F**  
 Drawings Avail: **No**              Drawings#: **4083954**  
 T.O. Avail: **No**                      T.O.#: **2J-F100-54**  
 Budget Code: **8**  
 Cage Code: **77445**  
 Mesh File Avail: **No**              #:  
 Next Higher Assembly: **N/A**

DMSMS Report

**DMSMS Report Not Available**



If you would like to participate in the Technical Discussion on **17 Sep 2019, at 1:30 – 2:00 p.m. (CST)**, provide the following information NLT **11 Sep 2019**  
[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering





# Compressor Vane Segment



**Alternate Source (Repair)**

**Tinker AFB - 421 SCMS**

MDS/TMS: **F-15 & F-16/F100**

Noun: **Vane Segment, Compressor**

NSN: **2840-01-619-8985**

PN: **4089078-01**

Buy Price: **\$2,797.08**

Date of Last Procurement: **05/29/2018**

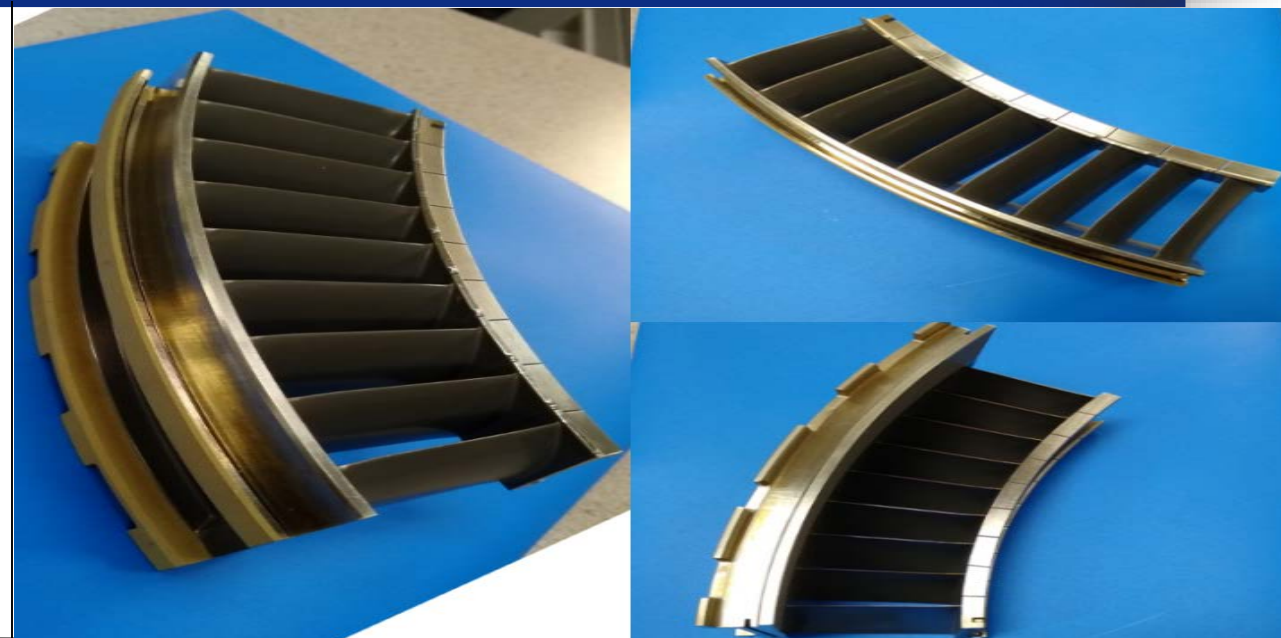
Repair Price: **\$1,230.71**

AAC: **C**

Surplus Available: **No via ILSmart**

QPA & Appl %: **4 @ 100**

Replacement Rate%: **100**



## Out Year Requirements (Buy/Repair)

FY20: <b>62</b>	FY21: <b>69</b>	FY22: <b>72</b>	FY23: <b>65</b>	FY24: <b>75</b>
FY20: <b>03</b>	FY21: <b>61</b>	FY22: <b>67</b>	FY23: <b>69</b>	FY24: <b>73</b>

## Details/Issues

- **Hot Section Module, Turbine Disk, Multiple NSNs**
- **Part is in the core module of the F100-229 engine**
- **Legacy NSN: 2840013674825 (AAA) P/N: 4083978-01 currently in use/both configurations require repair There is a difference in the coating for Legacy and New NSN's**
- **Interested vendors should submit a Source Approval Request (SAR)**

761 (Y)	762 (N)	EDL (Y)	RDL (N)
---------	---------	---------	---------



# Compressor Vane Segment



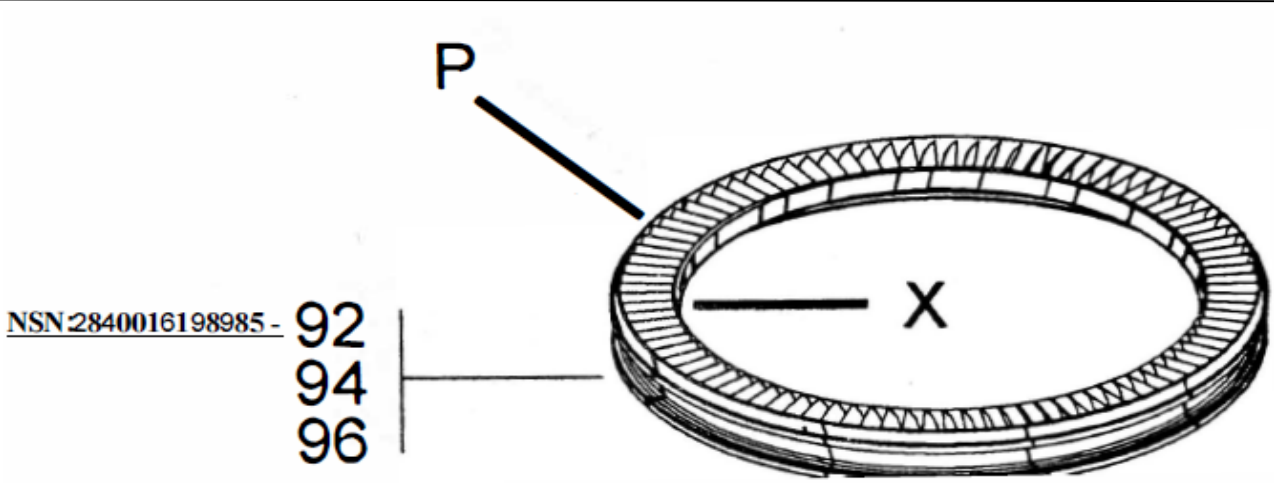
Alternate Source (Repair)

Tinker AFB - 421 SCMS

AMC/AMSC: **2C**                      RMC/RMSC: **NA**  
 Material: **Nickel Alloy**  
 Dimensions: **2.2000" L X 1.2000" W X 1.2000" H X 1.000 LB (Inches)**  
 Criticality Code: **F**  
 Drawings Avail: **No**                      Drawings#: **4083954**  
 T.O. Avail: **No**                              T.O.#: **2J-F100-54**  
 Budget Code: **8**  
 Cage Code: **77445**  
 Mesh File Avail: **No**                      #:  
 Next Higher Assembly: **N/A**

## DMSMS Report

**DMSMS Report Not Available**



If you would like to participate in the Technical Discussion on **17 Sep 2019, at 1:30 – 2:00 p.m. (CST)**, provide the following information NLT **11 Sep 2019**  
[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# ***TF33-PW-100A Engine***



***Supplying Warfighter Dominance***



# TF33 Items

See Worksheet

Tinker AFB - 421 SCMS



MDS/TMS: **E-8C/102C, B-52H/103, E-3/100A**  
Noun: **See Worksheet**  
NSN: **See Worksheet**  
PN: **See Worksheet**  
Buy Price: **See Worksheet**  
Date of Last Procurement (DOLP): **See Worksheet**  
Repair Price: **See Worksheet**  
AAC: **See Worksheet**  
Surplus Available (ILSmart): **See Worksheet**  
QPA & Appl %: **See Worksheet**  
Replacement Rate%: **See Worksheet**



Out Year Requirements (Buy/Repair)

**See Worksheet**

## Details/Issues

- **Critical Safety Items**
- **Government does not own technical data rights**
- **For AMSC/RMSC "C" coded items interested vendors should submit a Source Approval Request (SAR)**



# TF33 Items

See Worksheet

Tinker AFB - 421 SCMS



<p>AMC/AMSC: <b>See wkst</b> RMC/RMSC: <b>See wkst</b> Material: <b>See worksheet</b> Dimensions: <b>See worksheet</b> Criticality Code: <b>See worksheet</b> Drawings Avail: <b>Partial</b> Drawings#: <b>See wkst</b> Drawing Cage Code: <b>77445</b> T.O. Avail: <b>Partial</b> T.O.#: <b>See Wkst</b> Budget Code: <b>8 (OC) &amp; 9 (DLA)</b> Mesh File Avail: <b>No</b> # Next Higher Assembly/Application: <b>See worksheet</b></p>	<p>DMSMS Report</p> <p><b>No Health Analysis Report</b></p>
	<p>If you would like to participate in the Technical Discussion on <b>22 Aug 2019, at 9:30-10:30 a.m. (CST)</b>, provide the following information NLT <b>19 Aug 2019</b> <b><u><a href="mailto:429SCMS.SASPO.Workflow@us.af.mil">429SCMS.SASPO.Workflow@us.af.mil</a></u></b></p> <ul style="list-style-type: none"><li>▪ Company, address, name(s), email(s), phone</li><li>▪ Your questions for engineering</li></ul>



AS  
(Alternate Sourcing) New Buy

RE  
(Reverse Engineering)

AS  
(Alternate Sourcing) Repair

# TF33 Items (OC)

See Worksheet  
Tinker AFB - 421 SCMS



PROJECT TYPE	SOS	NOUN	NSN	PN	BUY PRICE	DOLP	REPAIR COST	AAC	SURPLUS	QPA / APPL %	RPL or CMD %	BUY & REPAIR RQMTS FY20 thru FY24	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS	CRIT CODE	DRAWING	T.O.	NHA
AS New Buy	OC	Stage 1 Outer Duct	2840013055309	794814	\$11,233.88	9/4/2018	\$1,202.00	M	16	1/100	100 R	30/28/31/30/28 13/14/13/14/14	Y/N/Y/N	1C N/A	AMS56485ST	4"L X 48"W X 50"H X 30 LBS; Aprox 0.141" Thick	Y	794814	2J-TF33-4	TF33-103, Gas Turbine Engine Compressor, 2840012355252
RE	OC	Oil Tube Config	2915011909221	576588	\$7,400.00	4/10/2018	\$1,401.00	M	5	1/100	85 C	94/89/96/93/91 0/0/0/0/0	Y/N/Y/N	1P N/A	Steel Alloy	37"L X 4"W X 4"H X 10 LBS	F	576588	2J-TF33-34	TF33-102C, Rotor-Front Compressor Drive, 2840011606481 2840014679426
RE	OC	2nd Stage Compressor Disk	2840009663021	482402	\$34,926.00	9/25/2017	\$1,492.00	M	1	1/100	73 C	12/15/19/12/21 0/0/0/0/0	N/N/Y/N	3V N/A	PWA 1215 Titanium	16"L X 3.775"W X 16"H X 70 LBS	F	482402	2J-TF33-44	2nd Stage Disk & Blade Assembly (Compressor) 2840000151677, 2840013399164
RE	OC	12th Stage Compressor Disk	2840008067734	762412	\$31,752.28	8/14/2018	\$907.00	M	4	1/100	100R	14/19/20/17/17 0/0/0/0/0	Y/N/Y/N	3V N/A	PWA 749 or PWA 768 Low Alloy Steel	23.5"L X 1.365"W X 23.5"H X 62 LBS	F	762412	2J-TF33-4	Rotor-Rear Compressor, 2840011605511, 2840014741294
RE	OC	14th Stage Compressor	2840007990114	702414	\$20,218.00	3/29/2017	\$1,390.00	M	0	1/100	85 C	84/94/91/87/91 0/0/0/0/0	N/N/Y/N	3V N/A	PWA 749 or PWA 768 Low Alloy Steel	18.9"L X 0.994"W X 18.9"H X 62 LBS	F	702414	2J-TF33-4	Aircraft Compressor, 2840014678828
RE	OC	No 2 Compressor Rear Hub	2840014678591	710410	\$43,014.33	5/11/2015	\$6,685.36	C	0	1/100	52 C	44/48/47/46/46 0/0/0/0/0	N/N/Y/N	3P N/A	AMS 5660 Nickel Alloy	16.56"L X 16.56"W X 16.4"H X 55 LBS	F	710410	2J-TF33-4	Aircraft Compressor, 2840014678828
AS New Buy	OC	3rd Stage Spacer Assembly	2840009668086	714178	\$5,802.98	10/1/2015	\$2,172.00	M	89	1/100	50 C	0/0/0/6/7 1/7/0/0/0	Y/N/Y/N	2C N/A	Metal	25" L X 25" W X 4.8" H X 15 LBS	Y	714178	2J-TF33-44	N1 (LSC) Compressor Rotor, 2840000151677
AS New Buy	OC	4th Stage Compressor Spacer	2840009668085	762382	\$4,618.22	8/10/2016	\$3,306.00	M	20	1/100	63 C	0/47/24/15/25 0/0/0/0/0	Y/N/Y/N	1C N/A	AMS 6415, Low Alloy Steel	3.7890"L X 17.0800"W X 17.0800"H X 4.0000 (LBS)	Y	762382	2J-TF33-4, 34	Front Compressor Rotor and Stator Assembly, 2840000151677, 2840011603158, 2840014648708
AS New Buy	OC	6th Stage Compressor Spacer	2840009668084	762384	\$4,450.28	7/2/2018	\$2,995.00	M	3	1/100	83 C	6/30/47/32/29 5/0/0/0/0	Y/N/Y/N	1C N/A	AMS 6415, Low Alloy Steel	3.1300"L X 17.2400"W X 17.2400"H X 3.000 (LBS)	Y	762384	2J-TF33-4, 34	Front Compressor Rotor and Stator Assembly, 2840000151677, 2840011603158, 2840014648708

Supplying Warfighter Dominance



AS  
(Alternate Sourcing) New Buy  
  
RE  
(Reverse Engineering)  
  
AS  
(Alternate Sourcing) Repair

# TF33 Items (OC)

See Worksheet  
Tinker AFB - 421 SCMS



PROJECT TYPE	SOS	NOUN	NSN	PN	BUY PRICE	DOLP	REPAIR COST	AAC	SURPLUS	QPA / APPL %	RPL or CMD %	BUY & REPAIR RQMTS FY20 thru FY24	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS	CRIT CODE	DRAWING	T.O.	NHA
AS New Buy	OC	5th Stage Compressor Spacer	2840009668083	762383	\$5,764.50	8/10/2016	\$3,604.00	M	24	1/100	38 C	24/30/34/24/30 0/0/0/0/0	Y/N/Y/N	1C N/A	AMS 2416 Steel, Nickel Cadmium	15.20"L X 17.10"W X 3.1250"H X 10 (LBS)	F	762383	2J-TF33-4, -34, -44	Front Compressor Rotor and Stator Assembly, 2840000151677, 2840011603158, 2840014648708
RE	OC	8th Stage Spacer	2840009668088	762377	\$18,434.91	4/1/2019	\$6,643.00	M	105	1/100	47 C	34/33/37/25/34 0/0/0/0/0	Y/N/Y/N	3P N/A	AMS 6415	2.80"L X 16"W X 16"H X 4 (LBS)	Y	762377	2J-TF33-4	Front Compressor Rotor and Stator Assembly, 2840000151677, 2840011603158, 2840014648708
RE	OC	15th Stage Spacer	2840009913735	461485	\$21,560.01	5/23/2017	\$1,835.00	M	27	1/100	83 C	9/12/13/15/8 0/0/0/0/0	Y/N/Y/N	3P N/A	AMS 5660 Nickel Alloy	25(IN) L, 25(IN) W, 3.5(IN) H, 10.8 (LB)	F	461485	2J-TF33-44	2840009188399
RE	OC	13th Stage Spacer	2840001183288	542032	\$16,551.97	8/25/2017	\$5,627.66	M	4	1/100	86 C	13/13/19/11/15 0/0/0/0/0	Y/N/Y/N	3P N/A	AMS 5660 Nickel Alloy	18.9040 (IN) L, 1.9650 (IN) W, 18.9040 (IN) H, 20 (LB)	Y	542032	2J-TF33-4, -34	2840011605511, 2840014741294
RE	OC	15th Stage Spacer	2840004355545	542026	\$16,571.00	3/19/2018	\$2,521.00	C	13	1/100	41 C	7/6/10/7/6 0/0/0/0/0	Y/N/Y/N	3P N/A	AMS 5660 Nickel Alloy	19.3250" L, 1.7880 (IN) W, 19.3250 (IN) H, 20 (LB)	Y	542026	2J-TF33-4, -34	2840011605511, 2840014741294
AS New Buy	OC	16th Stage Compressor Blade	2840009819204	753116	\$478.28	8/31/2017	\$624.00	M	0	77/100	39 R	714/747/758/723/740 0/0/0/0/0	Y/N/Y/N	1C N/A	AMS 5616 Steel Blade	1.835"L X 0.95"W X 0.47"H X 0.5 LBS	F	753116	2J-TF33-44	Aircraft Compressor, 2840009188399
AS New Buy	OC	Diffuser Case	2840012203997	796721	\$241,695.92	8/3/2018	\$23,110.39	C	0	1/100	81 R	20/13/12/14/14 5/6/8/14/3	N/N/Y/N	3P N/A	AMS 5504 and AMS 5613 Corrosion and heat resistance steel	27.47"L X 17.32"W X 38.9"H X 100 LBS	F	796721	2J-TF33-44	TF-33-100A
AS Repair	OC	Turbine Exhaust Case	2840011679586	800224	\$108,149.00	12/13/2018	\$9,200.00	C	16	1/100	58 R	0/0/0/0/0 105/73/117/104/112	Y/Y/Y/Y	3P 1C	Inconel	12"L X 38"W X 38"H X 125 LBS	Y	802406	2J-TF33-4	2840014254071 TF33-005/-009/-102C/-103
RE	OC	LST Shaft CF Config	2840011606500	671023	\$25,290.00	4/3/2018	\$4,298.93	M	0	1/100	79 C	83/91/89/84/92 N/A	N/N/Y/N	3V N/A	AMS 6304 Low Alloy Steel	64"L X 10"W X 10"H X 60 LBS	F	671023	2J-TF33-34	2840000896150, 2840009158261, 2840014679426

Supplying Warfighter Dominance



AS  
(Alternate Sourcing) New Buy

RE  
(Reverse Engineering)

AS  
(Alternate Sourcing) Repair

# TF33 Items (DLA)

See Worksheet  
Tinker AFB - 421 SCMS



PROJECT TYPE	SOS	NOUN	NSN	PN	BUY PRICE	DOLP	REPAIR COST	AAC	SURPLUS	QPA / APPL %	RPL or CMD %	BUY & REPAIR RQMTS FY20 thru FY24	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS	CRIT CODE	DRAWING	T.O.	NHA
RE	DLA	13th Stage Compressor Rotor Blade	2840007678337	364913	\$523.57	7/1/2019	N/A	D	0	75/100	UNK	1140/1140/1140/1140/1140 N/A	Y/N/Y/N	3R N/A	Titanium	N/A	Y	364913	2J-TF33-4	Rear Rotor Compressor, 2840006859482, 2840014678828
AS New Buy	DLA	Inter-Connector, Can	2840008168611	454297	\$429.44	6/1/2018	N/A	D	144	1/100	UNK	132/132/132/132/132 N/A	Y/N/Y/N	1C N/A	AMS 5536 Nickel Alloy	N/A	X	454297	2J-TF33-4	Rear Rotor Compressor, 2840006859482, 2840014678828
RE	DLA	Compressor Rotor Lock	2840007596319	494420	\$28.12	1/1/2019	N/A	D	30	77/100	UNK	1812/1812/1812/1812/1812 N/A	Y/N/Y/N	3R N/A	N/A	N/A	N/A	494420	2J-TF33-44	Rotor-Rear Compressor 2840009188399
AS New Buy	DLA	Pin-Grooved	5315009862213	463745	\$108.80	5/1/2019	N/A	D	446	2/100	UNK	362/362/362/362/362 N/A	Y/N/Y/N	1C N/A	AMS 5613SST	1.42" Min/1.43" Max - Overall Length 0.496" Min/0.4965" Max - Diameter 1.255" Min/1.275" Max - Effective Length	X	463745	2J-TF33-4	Front Accessory and Component Drives Gearbox Housing
AS New Buy	DLA	Seal Ring	2840003864715	207732	\$376.18	6/1/2019	N/A	D	136	2/100	UNK	165/165/165/165/165 N/A	N/N/N/N	3C N/A	N/A	N/A	Y	207732	2J-TF33-44	Seal, Air, 2840-01-472-1856
AS New Buy	DLA	Tie Rod	5306009668046	471211	\$13.38	12/1/2018	N/A	D	966	24/100	UNK	3950/3950/3950/3950/3950 N/A	Y/N/Y/N	1C N/A	N/A	N/A	F	471211	2J-TF33-14	Rotor Turbine, 2840-00-175-8163
RE	DLA	1st Stage Compressor Vane	2840007658144	390651	\$2,042.62	5/1/2019	N/A	D	10	38/100	UNK	3451/3451/3451/3451/3451 N/A	N/N/Y/N	3P N/A	N/A	N/A	Y	390651	2J-TF33-4	Case and Nozzle Assembly, 2840007982846
RE	DLA	Seal	2840011599631	598159	\$5,593.18	1/1/2019	N/A	D	1	1/100	UNK	84 per year N/A	Y/N/Y/N	3P N/A	N/A	N/A	Y	598159	2J-TF33-34	Shroud Segment, 2840012088503
AS New Buy	DLA	Type 3 Inner Liner	2840001522543	628368	\$4,505.02	2/1/2019	N/A	D	47	As Req'd	UNK	406 per year N/A	N/N/N/N	3C N/A	N/A	N/A	Y	628368	2J-TF33-34	Combustion Chamber, 2840008285212
RE	DLA	Plate Assy, Combust	2840000734415	492645	\$2,108.98	3/1/2018	N/A	D	4	2/100	UNK	0/0/0/0/0 N/A	Y/N/Y/N	1P N/A	AMS 5504 SST	N/A	N/A	492645	2J-TF33-44	NA
AS New Buy	DLA	Inlet Case Seal	2840007947348	786512	\$17,067.72	4/1/2019	N/A	D	2	1/100	UNK	0/0/0/0/0 N/A	Y/N/Y/N	3C N/A	N/A	N/A	Y	786512	2J-TF33-44	Case/Nozzle Assembly, 2840009120107
RE	DLA	#1 Bearing Seal Holder	2840008670134	513228	\$2,645.93	5/1/2019	N/A	D	15	1/100	UNK	144 per year N/A	Y/N/Y/N	3P N/A	N/A	N/A	Y	513228	2J-TF33-34, -4, -44	Seal and Support, NSN 2840015217168
RE	DLA	Turbine Air Seal Ring	2840008478147	513542	\$3,439.24	5/1/2019	N/A	D	42	3/100	UNK	120 per year N/A	Y/N/Y/N	3P N/A	AMS 5754 Nickel Alloy	N/A	Y	513542	2J-TF33-4, -44, -33	NA

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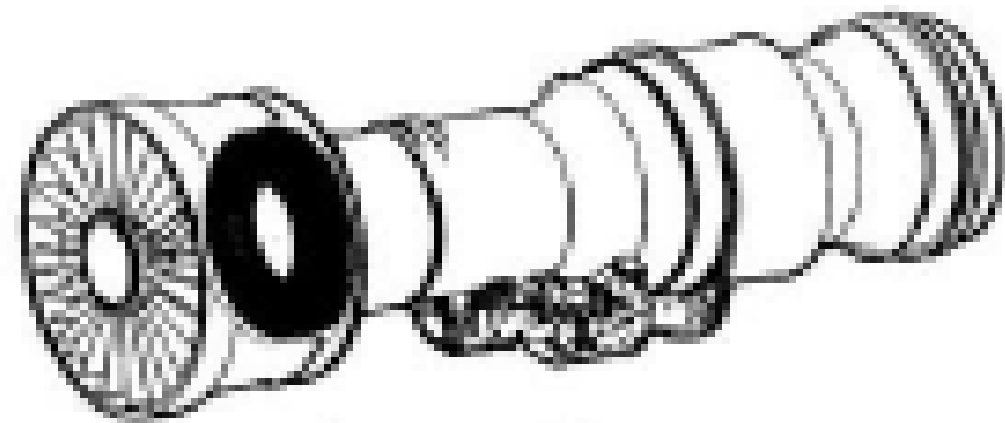


# TF33 Stator Assemblies

**Alternate Sourcing - Repair**  
Tinker AFB - 421 SCMS



MDS/TMS: **E-8G/100, B-52H/103, E-3/100**  
 Noun: **Stator Assemblies - See Worksheet**  
 NSN: **See Worksheet**  
 PN: **See Worksheet**  
 Buy Price: **See Worksheet**  
 Date of Last Procurement (DOLP): **See Worksheet**  
 Repair Price: **See Worksheet**  
 AAC: **See Worksheet**  
 Surplus Available (ILSmart): **See Worksheet**  
 QPA & Appl %: **See Worksheet**  
 Replacement Rate%: **See Worksheet**



Out Year Requirements (Buy/Repair)

**See Worksheet**

## Details/Issues

- **Critical Safety Item**
- **Government does not own technical data rights**
- **Interested vendors should submit a Source Approval Request (SAR)**



# TF33 Stator Assemblies

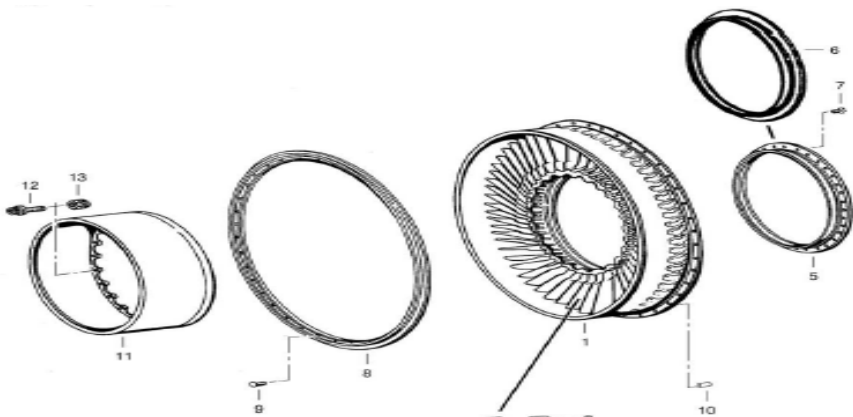
Alternate Sourcing - Repair  
Tinker AFB - 421 SCMS



AMC/AMSC: **See wkst** RMC/RMSC: **See wkst**  
Material: **See worksheet**  
Dimensions: **See worksheet**  
Criticality Code: **See worksheet**  
Drawings Avail: **Partial** Drawings#: **See wkst**  
Drawing Cage Code: **77445**  
T.O. Avail: **Partial** T.O.#: **See Wkst**  
Budget Code: **8**  
Mesh File Avail: **No** #  
Next Higher Assembly/Application: **See worksheet**

DMSMS Report

**No Health Analysis Report**



If you would like to participate in the Technical Discussion on **22 Aug 2019, at 9:30-10:30 a.m. (CST)**, provide the following information NLT **19 Aug 2019**

**[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)**

- Company, address, name(s), email(s), phone
- Your questions for engineering



# TF33 Stator Assemblies

**Alternate Sourcing - Repair**  
**Tinker AFB - 421 SCMS**



STAGES	NSN	PN	PN CAGE	AAC	BUY PRICE	DOLP	REPAIR PRICE	SURPLUS	QPA/APPL %	REPL %	BUY & REPAIR RQMTS FY19-FY23	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS (INCHES)	CRIT CODE	DWG #	T.O. NUMBER	NHA/APPL
5th Stage	2840-01-004-1796	748685	77445	C	\$3,265.92	9/24/1996	\$4,661.00	0	10 / 100	50	0/0/0/0/0 24/165/154/152/119	Y/Y/Y/Y	3H 5C	Steel Alloy	4"L X 22"W X 4"H X 15 LBS	Y	748685	2J-TF33-4, -44	TF33-005/-009/-100A/-102C/-103
6th Stage	2840-01-004-2179	748686	77445	C	\$36,128.60	9/30/2014	\$4,158.44	0	2 / 100	55	0/0/31/4/6 15/177/183/171/94	Y/Y/Y/Y	3P 5C	AMS4125	30.25"L X 3.31"W X 3.31"H X 10LBS	Y	748686	2J-TF33-4, -44	TF33-005/-009/-100A/-102C/-103
7th Stage	2840-01-004-1797	749777	77445	C	\$34,318.32	9/27/2013	\$4,255.00	1	10 / 100	61	0/50/59/61/60 76/205/186/133/87	Y/Y/Y/Y	3P 5C	AMS5504 & AMS5613 corrosion and heat resistant steel	29.67"L X 3.09"W X 29.67"H X 30 LBS	Y	749777	2J-TF33-4, -44	TF33-005/-009/-100A/-102C/-103
8th Stage	2840-01-004-1794	748688	77445	C	\$39,886.18	9/30/2011	\$3,815.00	1	2 / 100	52	0/0/0/0/0 59/175/164/165/124	Y/Y/Y/Y	1P 5C	Aluminum Alloy	29.17"L X 29.16"W X 2.86"H X 15 LBS	Y	748688	2J-TF33-4, -44	TF33-005/-009/-100A/-102C/-103
15th Stage	2840-01-004-5772	766595	77445	C	\$83,764.94	9/6/2017	\$14,291.00	0	1 / 100	100	0/0/0/0/0 10/40/39/25/24	Y/Y/Y/Y	3P 5C	AMS5504 & AMS5613 corrosion and heat resistant steel	27.78"L X 1.6"W X 27.78"H X 60 LBS	Y	766595	2J-TF33-44	TF33-100A Compressor
13th Stage	2840-01-005-1882	766593	77445	M	\$46,005.27	4/6/2011	\$14,731.85	1	1 / 100	100	20/13/7/12/7 31/28/27/26/24	Y/Y/Y/Y	3P 5C	AMS5613 Stainless Steel	27.46"L X 27.46"W X 2.23"H X 15 LBS	Y	766593	2J-TF33-44	TF33-100A Compressor
14th Stage	2840-01-004-5773	766594	77445	C	\$59,334.05	3/26/2010	\$13,456.08	2	1 / 100	100	0/0/0/0/0 38/51/44/31/28	Y/Y/Y/Y	3P 5C	AMS5613 Stainless Steel	27.8"L X 2.5"W X 27.8"H X 15 LBS	Y	766594	2J-TF33-44	TF33-100A Compressor
12th Stage	2840-01-004-5774	765192	77445	C	\$7,556.85	9/29/1993	\$9,224.33	1	1 / 100	100	48/16/6/15/8 28/25/23/22/21	Y/Y/Y/Y	3P 5C	AMS5613 Stainless Steel	27.74"L X 27.74"W X 1.38"H X 8 LBS	Y	765192	2J-TF33-44	TF33-100A Compressor

*Supplying Warfighter Dominance*



# TF33 Stator Assemblies

**Alternate Sourcing - Repair**  
**Tinker AFB - 421 SCMS**



STAGES	NSN	PN	PN CAGE	AAC	BUY PRICE	DOLP	REPAIR PRICE	SURPLUS	QPA/APPL %	REPL %	BUY & REPAIR RQMTS FY19-FY23	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS (INCHES)	CRIT CODE	DWG #	T.O. NUMBER	NHA/APPL
11th Stage	2840-01-004-5771	765191	77445	C	\$12,805.79	4/3/2009	\$9,143.96	1	1 / 100	100	0/0/1/3/10 29/57/40/24/22	Y/Y/Y/Y	1P 5C	AMS5613 Stainless Steel	2"L X 20"W X 20"H X 8 LBS	Y	765191	2J-TF33-44	TF33-100A Compressor
10th Stage	2840-01-004-1802	765190	77445	M	\$24,621.23	9/24/2008	\$6,656.85	3	1 / 100	100	0/0/0/0/0 4/52/46/38/31	Y/Y/Y/Y	1P 5C	AMS5613 Stainless Steel	2"L X 20"W X 2"H X 8 LBS	Y	765190	2J-TF33-44	TF33-100A Compressor
13th Stage	2840-01-160-3216	765573	52661	M	\$54,421.23	2/2/2012	\$10,272.00	36	1 / 100	100	175/40/39/53/41 77/61/61/67/64	N/Y/Y/Y	3P 5C	Stainless Steel	27.49"L X 27.49"W X 15 LBS	F	765573	2J-TF33-4, -34	TF33-102C/-103
14th Stage	2840-01-160-3217	765574	77445	M	\$51,562.55	12/4/2018	\$4,000.00	6	4 / 100	64	0/37/23/20/21 59/72/41/49/38	Y/Y/Y/Y	3P 1C	Inconel	23.94"L X 23.92"W X 6.41"H X 40 LBS	F	767922	2J-TF33-4, -34	TF33-005/-009/-102C/-103
15th Stage	2840-01-160-3218	765575	77445	M	\$55,913.20	9/24/2015	\$10,533.00	8	3 / 100	100	153/40/40/61/42 39/72/59/63/61	Y/Y/Y/Y	3P 5C	AMS5504 Stainless Steel	.83"L X .83"W X 19.4"H X 8 LBS	F	765575	2J-TF33-4, -34	TF33-005/-009/-102C/-103
10th Stage	2840-01-160-3213	759580	77445	M	\$16,331.78	2/26/2003	\$6,995.00	3	1 / 100	100	0/0/0/0 15/42/39/30/28	N/Y/Y/Y	3P 1C	AMS5613 Stainless Steel	27.74"L X 27.74"W X 1.38"H X 8 LBS	Y	759580	2J-TF33-34	TF33-102C
12th Stage	2840-01-160-3215	759672	77445	M	\$11,141.82	3/26/2003	\$6,712.00	1	1 / 100	100	0/0/3/10/10 21/44/25/17/16	Y/Y/Y/Y	3P 1C	AMS5613 Stainless Steel	27.74"L X 27.74"W X 2.30"H X 8 LBS	Y	759672	2J-TF33-34	TF33-102C
11th Stage	2840-01-160-3214	759581	77445	M	\$12,329.48	10/1/2014	\$7,152.00	14	1 / 100	100	0/0/0/0 24/43/38/20/18	Y/Y/Y/Y	3P 1C	AMS5504 & AMS5613 Stainless Steel	27.64"L X 1.22"W X 27.64"H X 50 LBS	F	759581	2J-TF33-34	TF33-102C
10th Stage	2840-01-004-1798	765180	77445	M	\$47,751.83	1/24/2014	\$6,727.00	0	1 / 100	100	0/53/25/30/26 66/102/52/53/52	Y/Y/Y/Y	3P 5C	AMS5504 & AMS5613 Stainless Steel	27.15"L X 3.25"W X 27.15"H X 40 LBS	Y	765180	2J-TF33-4	TF33-005/-009/-103
11th Stage	2840-01-004-1799	765181	77445	M	\$10,092.57	7/15/2009	\$6,682.00	0	2 / 100	100	96/15/15/31/11 47/62/60/66/65	Y/Y/Y/Y	3P 5C	Corrosion Resistant Steel	27.74"L X 27.72"W X 2.49"H X 15 LBS	Y	765181	2J-TF33-4	TF33-005/-009/-103
12th Stage	2840-01-004-1800	765182	77445	M	\$63,067.00	5/29/2018	\$11,225.00	0	2 / 100	100	119/21/19/32/17 42/56/56/60/60	Y/Y/Y/Y	3P 5C	Aluminum Alloy	32"L X 4"H X 32"H X 22 LBS	Y	765182	2J-TF33-4	TF33-005/-009/-103

*Supplying Warfighter Dominance*

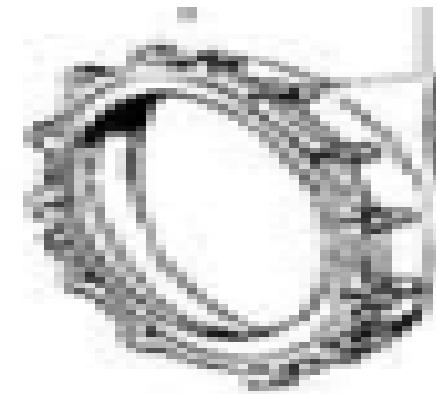


# TF33 Carbon Seals

**Alternate Sourcing - Repair**  
Tinker AFB - 421 SCMS



MDS/TMS: **E-8G/100, B-52H/103, E-3/100**  
 Noun: **Carbon Seals - See Worksheet**  
 NSN: **See Worksheet**  
 PN: **See Worksheet**  
 Buy Price: **See Worksheet**  
 Date of Last Procurement (DOLP): **See Worksheet**  
 Repair Price: **See Worksheet**  
 AAC: **C**  
 Surplus Available (ILSmart): **See Worksheet**  
 QPA & Appl %: **See Worksheet**  
 Replacement Rate%: **See Worksheet**



Out Year Requirements (Buy/Repair)

**See Worksheet**

## Details/Issues

- **Critical Safety Item**
- **Government does not own technical data rights**
- **DMSMS Report not available**
- **Interested vendors should submit a Source Approval Request (SAR)**



# TF33 Carbon Seals

Alternate Sourcing - Repair

Tinker AFB - 421 SCMS



AMC/AMSC: **See wkst** RMC/RMSC: **See wkst**

Material: **See worksheet**

Dimensions: **See worksheet**

Criticality Code: **See worksheet**

Drawings Avail: **Partial** Drawings#: **See wkst**

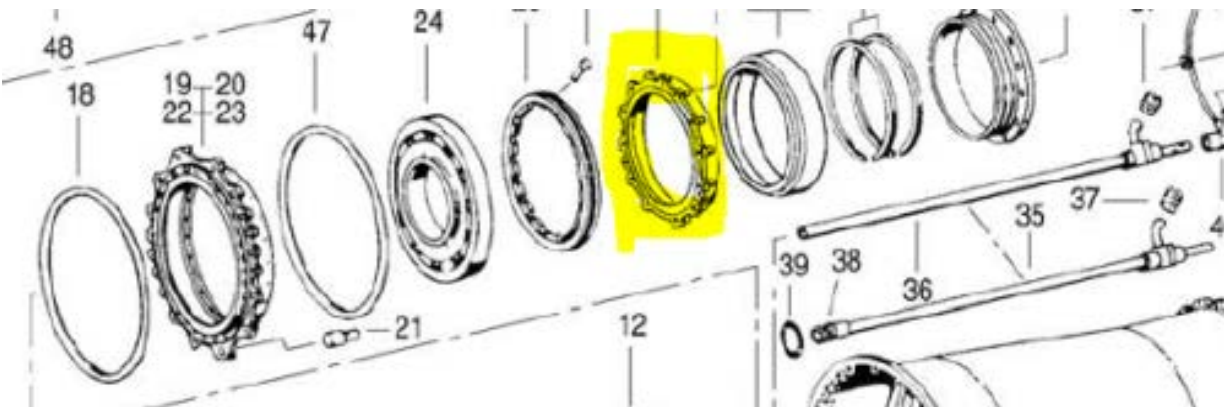
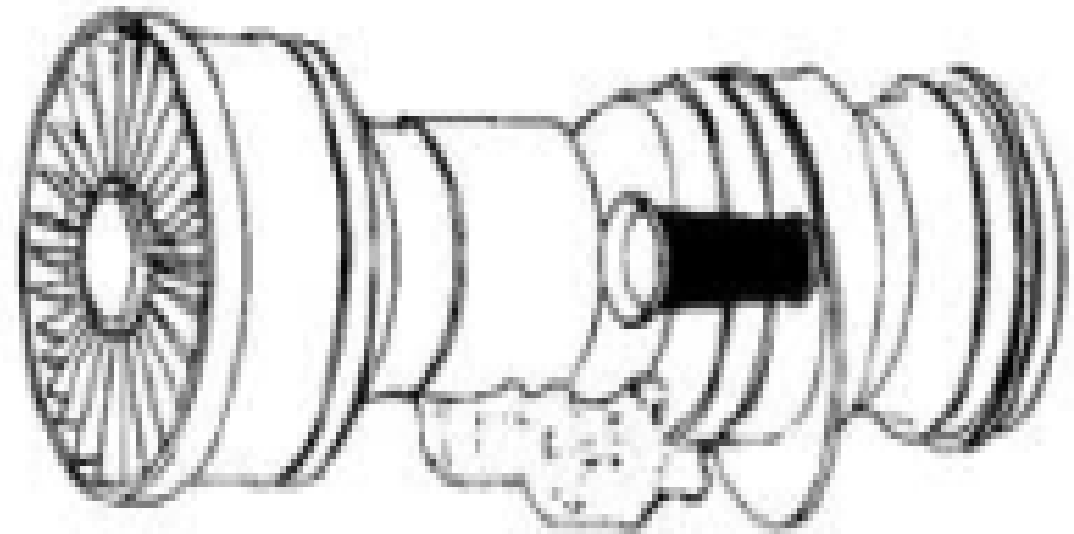
Drawing Cage Code: **See Wkst**

T.O. Avail: **Partial** T.O.#: **See Wkst (IPB)**

Budget Code: **8**

Mesh File Avail: **No** #

Next Higher Assembly/Application: **See worksheet**



If you would like to participate in the Technical Discussion on **22 Aug 2019, at 9:30-10:30 a.m. (CST)**, provide the following information NLT **19 Aug 2019**

**[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)**

- Company, address, name(s), email(s), phone
- Your questions for engineering



# TF33 Carbon Seals

## Alternate Sourcing - Repair Tinker AFB - 421 SCMS



NOUN	NSN	PN	PN CAGE	BUY PRICE	DOLP	REPAIR PRICE	SURPLUS	QPA/APPL %	REPL %	BUY & REPAIR RQMTS FY19-FY23	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS (INCHES)	CRIT CODE	DWG #	DWG CAGE	T.O. NUMBER	NHA/APPL	
#3 Carbon Seal	2840-00-019-2220	463382	77445	\$1,310.21	4/20/2005	\$845.00	106	5 / 100	100	122/18/23/28/22 83/119/116/125/97	Y/Y/Y/Y	3R 1C	Metal Alloy, Carbon Seal & Steel Housing	8"L X 8"W X 1.5"H X 3 LBS	Y	463382	77445	2J-TF33-4, -44	TF33-005/-009/-100A/-102C/-103	
#3 Carbon Seal	2840-00-505-9306	246822	77445	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#5 Carbon Seal	2840-01-470-6511	815922	52661	\$2,713.17	11/19/2009	\$1,085.00	2	5 / 100	100	0/0/0/0/0 58/145/152/152/117	N/Y/Y/Y	4H 1C	Steel Alloy	6.8"L X 6.8"W X 1.0"H X 3.5 LBS	Y	815922	77445	2J-TF33-4, -44	TF33-005/-009/-100A/-102C/-103	
#4 Carbon Seal	2840-00-758-8140	483197	77445	\$818.14	4/20/2017	\$792.00	89	4 / 100	100	0/0/0/0/0 69/107/109/120/85	Y/Y/Y/Y	2C 1C	Metallic housing made of AMS5613 SST and contains carbon element	7"L X 7"W X 1"W X 3 LBS	Y	483197	77445	2J-TF33-4, -34	TF33-005/-009/-102C/-103	
#2 Carbon Seal	2840-01-160-3033	765302	77445	\$1,292.99	4/10/2004	\$781.00	68	4 / 100	81	0/86/13/11/10 53/66/71/77/62	N/Y/Y/Y	3P 1C	Steel Alloy	6.4"L X 6.4"W X 1.5"H X 3 LBS	Y	765302	77445	2J-TF33-4, -34	TF33-005/-009/-102C/-103	
#1 Carbon Seal	2840-00-755-7525 Master	510393	77445	\$1,710.86	1/15/2014	\$806.00	32	4 / 100	100	120/4/12/11/13 67/86/89/102/77	N/Y/Y/Y	3P 1C	Metal Alloy	8"L X 8"W X 1.5"H X 3 LBS	F	510393	77445	2J-TF33-4, -34	TF33-005/-009/-102C/-103	
#1 Carbon Seal	2840-00-768-2106 Sub	358395	77445	\$1,710.86	1/15/2014	\$806.00	98	4 / 100	100	included in master requirement (Repair only)	N/A	3C NA	NA	NA	Y	358395	77445	2J-TF33-24 2J-TF33-34	TF33-005/-009/-102C/-103	
#2 Carbon Seal	2840-00-226-3901	565721	77445	\$1,816.53	5/20/2010	\$781.00	55	1 / 100	100	30/7/6/2/8 25/32/30/31/24	Y/Y/Y/Y	1C 1C	Steel Alloy	6.5"L X 6.5"W X 1"H X 3 LBS	Y	565721	77445	2J-TF33-44	TF33-100A	
#1 Carbon Seal	2840-00-833-3845	565718	77445	\$2,090.59	2/17/2011	\$806.00	5	1 / 100	100	0/0/0/0/0 10/44/38/36/26	Y/Y/Y/Y	1R 1C	Steel Alloy	7.14"L X 1"W X 1.25"H X 5 LBS	Y	565718	77445	2J-TF33-44	TF33-100A	

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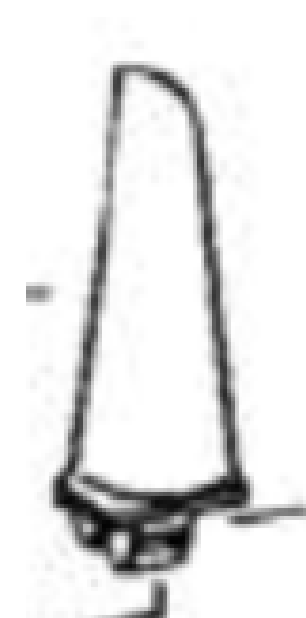
# TF33 Blade Sets

**Alternate Sourcing - Repair**

**Tinker AFB - 421 SCMS**



MDS/TMS: **E-8G/100, B-52H/103, E-3/100**  
 Noun: **Blade Sets - See Worksheet**  
 NSN: **See Worksheet**  
 PN: **See Worksheet**  
 Buy Price: **See Worksheet**  
 Date of Last Procurement (DOLP): **See Worksheet**  
 Repair Price: **See Worksheet**  
 AAC: **C**  
 Surplus Available: **See Worksheet**  
 QPA & Appl %: **See Worksheet**  
 Replacement Rate%: **See Worksheet**



Out Year Requirements (Buy/Repair)

**See Worksheet**

## Details/Issues

- **Critical Safety Item**
- **Government does not own technical data rights**
- **DMSMS Report not available**
- **Interested vendors should submit a Source Approval Request (SAR)**





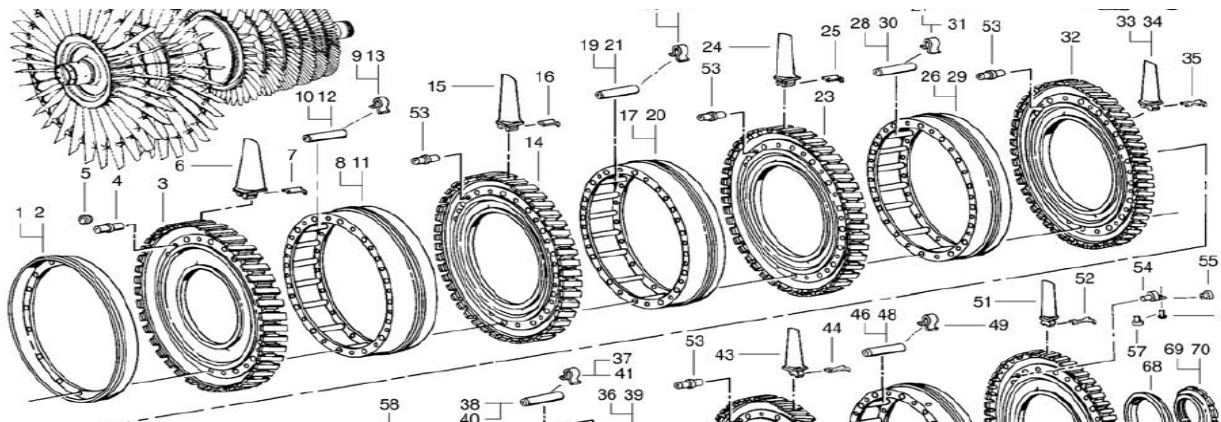
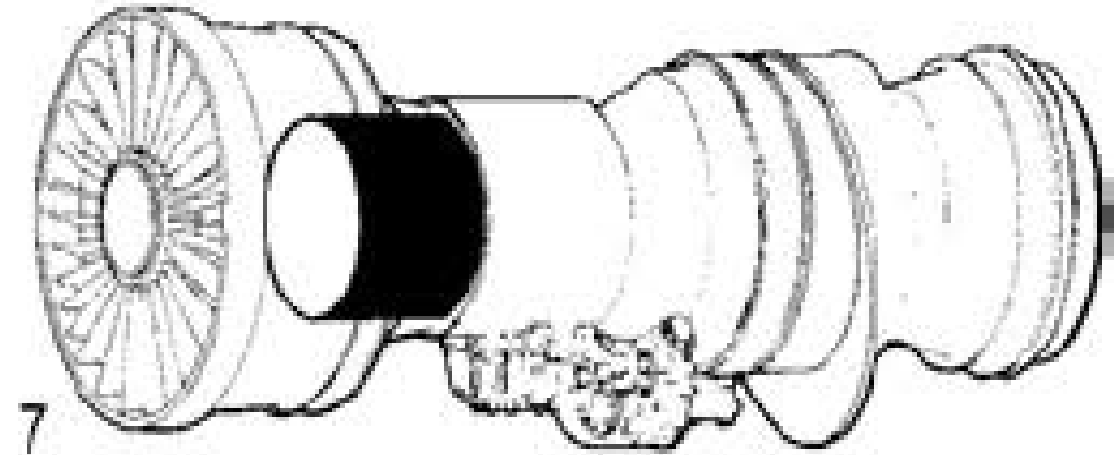
# TF33 Blade Sets

Alternate Sourcing - Repair

Tinker AFB - 421 SCMS



AMC/AMSC: **See wkst** RMC/RMSC: **See wkst**  
Material: **See worksheet**  
Dimensions: **See worksheet**  
Criticality Code: **See worksheet**  
Drawings Avail: **Partial** Drawings#: **See wkst**  
Drawing Cage Code: **See Wkst**  
T.O. Avail: **Partial** T.O.#: **See Wkst (IPB)**  
Budget Code: **8**  
Mesh File Avail: **No** #  
Next Higher Assembly/Application: **See worksheet**



If you would like to participate in the Technical Discussion on **22 Aug 2019, at 9:30-10:30 a.m. (CST)**, provide the following information NLT **19 Aug 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering

*Supplying Warfighter Dominance*



# TF33 Blade Sets

Alternate Sourcing - Repair  
Tinker AFB - 421 SCMS



NOUN	NSN	PN	PN CAGE	BUY PRICE	DOLP	REPAIR PRICE	SURPLUS	QPA/APPL %	REPL %	BUY & REPAIR RQMTS FY19-FY23	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS (INCHES)	CRIT CODE	DWG #	DWG CAGE	T.O. NUMBER	NHA/APPL
1st Stage Blade Set	2840-00-157-3633	694221	77445	\$4,738.50	7/27/1996	\$492.70	800	17 @ 100	100	0/0/248/0/0 373/496/467/404/375	Y/Y/Y/Y	1P 1P	AMS4928 Titanium Alloy	17.073"L X 3.92"W X .985"H X 5 LBS	F	694221	77445	2J-TF33-44	TF33-100 Compressor Hub
1st Stage Blade	2840-00-439-9238	410025	77445	\$5,394.57	9/27/2012	\$470.00	0	16 @ 100	100	0/0/0/0/0 453/1250/1211/1335/1245	N/Y/Y/Y	EV 1C	AMS4928 Titanium Alloy	16.279"L X 3.508"W X 1.5"H X 10 LBS	F	410025	77445	2J-TF33-4	TF33-P-103 Compressor Rotor
2nd Stage Compressor Blade Set	2840-00-439-9236	410026	52661	\$3,765.33	8/1/2002	\$600.00	0	16 @ 100	105	0/0/0/0/0 2269/2122/1964/2191/1796	Y/Y/Y/Y	3V 1C	AMS4928 Titanium Alloy	14.655"L X 3.347"W X .985"H X 8 LBS	Y	410026	77445	2-1-111; 2JTF33-53-1, 2, -5, -6, -7; 2J-TF33- 345	TF33-P-102C/P- 103 Low Speed Compressors
1st Stage Turbine Blade Set	2840-01-411-0982	780831	77445	\$2,022.00	9/28/2017	\$238.00	372	65 @ 100	100	0/0/0/0/0 5009/2795/6541/4285/3344	Y/Y/Y/Y	3R 1C	PWA 1455 Nickel Alloy with protective coating of PWA 70 with overcoating of PWA 73	3.75"L X 1.25"W X .75"H X .5 LB	F	780831	77445	2-1-111; 2J-TF33-53- 1, 2, -5, -6, -7; 2J- TF33-4, -34, -44	TF33 Multiple Turbine Compressor Rotors

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# TF33 Turbine Nozzle Vanes



**Alternate Sourcing - Repair**

**Tinker AFB - 421 SCMS**

MDS/TMS: **E-8G/100, B-52H/103, E-3/100**  
 Noun: **Turbine Nozzle Vanes - See worksheet**  
 NSN: **See worksheet**  
 PN: **See worksheet**  
 Buy Price: **See worksheet**  
 Date of Last Procurement (DOLP): **See worksheet**  
 Repair Price: **See worksheet**  
 AAC: **See worksheet**  
 Surplus Available (ILSmart): **See worksheet**  
 QPA & Appl %: **See worksheet**  
 Replacement Rate%: **See worksheet**



## Details/Issues

Out Year Requirements (Buy/Repair)

**See Worksheet**

- **Critical Safety Item**
- **Government does not own technical data rights**
- **DMSMS Report not available**
- **Interested vendors should submit a Source Approval Request (SAR)**



# TF33 Turbine Nozzle Vanes



Alternate Sourcing - Repair

Tinker AFB - 421 SCMS

AMC/AMSC: **See wkst** RMC/RMSC: **See wkst**

Material: **See worksheet**

Dimensions: **See worksheet**

Criticality Code: **See worksheet**

Drawings Avail: **Partial** Drawings#: **See wkst**

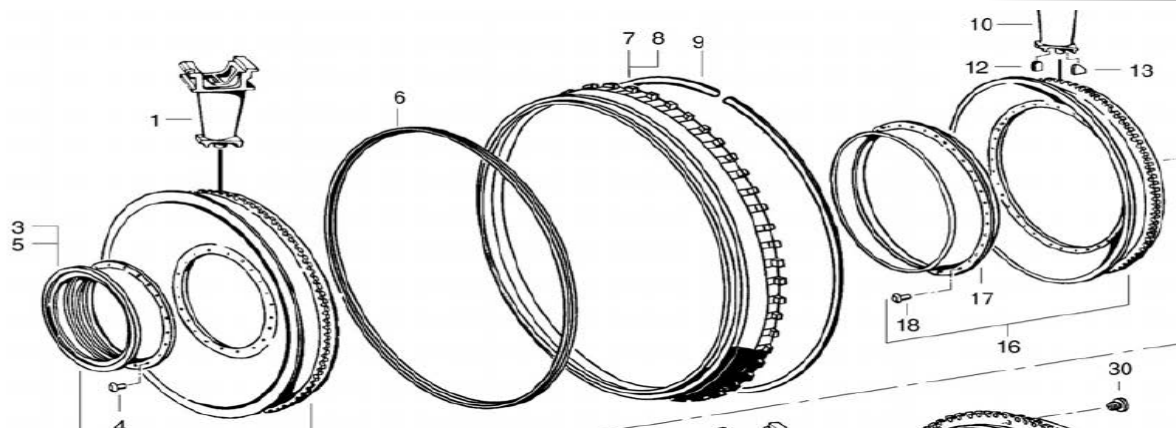
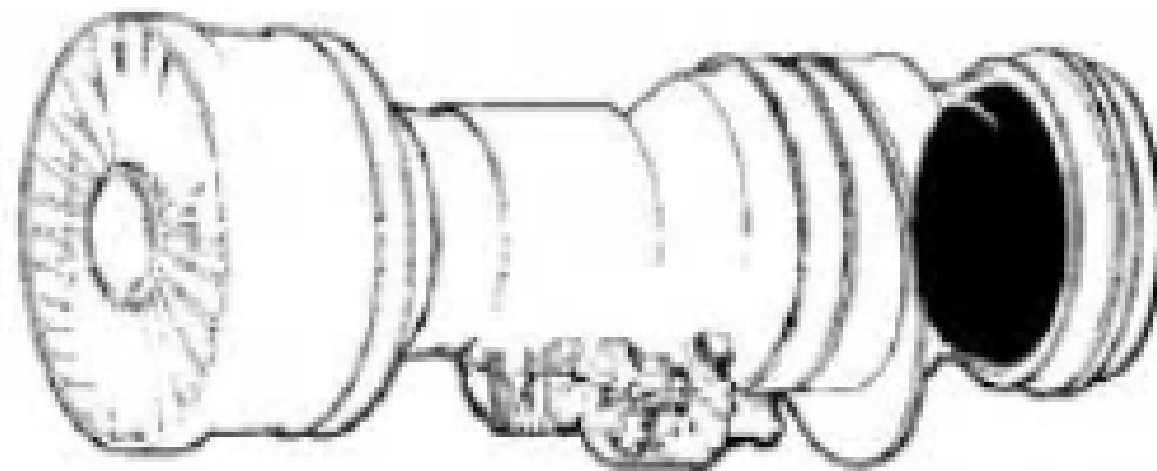
Drawing Cage Code: **See wkst**

T.O. Avail: **Partial** T.O.#: **See wkst (IPB)**

Budget Code: **8**

Mesh File Avail: **No** #

Next Higher Assembly/Application: **See worksheet**



If you would like to participate in the Technical Discussion on **22 Aug 2019, at 9:30-10:30 a.m. (CST)**, provide the following information NLT **19 Aug 2019**

**[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)**

- Company, address, name(s), email(s), phone
- Your questions for engineering

*Supplying Warfighter Dominance*



# TF33 Turbine Nozzle Vanes

## Alternate Sourcing - Repair Tinker AFB - 421 SCMS



Stage/Class	NSN	PN	PN CAGE	BUY PRICE	DOLP	REPAIR PRICE	AAC	SURPLUS AVAILABLE (ILSMART)	QPA/ APPL %	REPL %	BUY & REPAIR RQMTS FY19-FY23	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS (INCHES)	CRIT CODE	DWG #	DWG CAGE	T.O. NUMBER
3rd / 3	2840-00-962-1260	799353CL3	77445	\$368.90	5/4/1985	\$51.43	C	265	95/28%(005) 95/28%(009) 95/42%(100A) 95/34%(102C) 95/30%(103)	100	0/0/0/0/0 3664/4052/4118/4387/3296	Y/Y/Y/Y	2C 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	799353	77445	2J-TF33-4, -34, -44
1st / 20	2840-01-394-5228	804351CL20	77445	\$1,215.39	6/26/2012	\$213.00	C	0	63/13%(005) 63/13%(009) 63/21%(100A) 63/19%(102C) 63/37%(103)	100	0/0/0/0/0 76/2389/2657/2955/2154	Y/Y/Y/Y	3R 1C	Cobalt Alloy	4.15"L X 2.04"W X 1.3"H X .5 LBS	Y	804351	77445	2J-TF33-4, -34, -44
3rd / 4	2840-00-962-1261	799353CL4	77445	\$368.90	5/4/1985	\$51.43	C	424	95/28%(005) 95/28%(009) 95/13%(100A) 95/23%(102C) 95/27%(103)	100	0/0/0/0/0 605/3063/3158/3540/2597	N/Y/Y/Y	4H 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	799353	77445	2J-TF33-4, -34, -44
4th / 8	2840-00-962-1265	799554CL8	77445	\$368.90	5/4/1985	\$51.00	C	70	95/28%(005) 95/28%(009) 95/13%(100A) 95/23%(102C) 95/27%(103)	100	0/2048/839/837/824 1838/3243/2176/2419/1809	N/Y/N/Y	3V 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	799554	77445	2J-TF33-4, -34, -44
3rd / 2	2840-00-962-1259	799353CL2	77445	\$52.97	11/21/2018	\$51.00	C	516	95 / 45	100	0/0/0/0/0 3749/4578/4674/5162/3792	Y/Y/Y/Y	2C 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	F	799353	77445	2J-TF33-4, -34, -44
4th / 5	2840-00-962-1256	799554CL5	77445	\$368.90	5/4/1985	\$51.00	C	0	89/18%(005) 89/18%(009) 89/24%(100A) 89/27%(102C) 89/26%(103)	100	0/1921/855/853/856 2017/2685/2541/2502/1888	N/Y/Y/Y	3P 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	799554	77445	2J-TF33-4, -34, -44
1st / 19	2840-01-394-5226	804351CL19	77445	\$1,126.68	10/26/2011	\$213.00	C	0	63/13%(005) 63/13%(009) 63/30%(100A) 63/27%(102C) 63/36%(103)	100	0/0/0/0/0 2249/2994/3068/3307/2445	Y/Y/Y/Y	3R 1C	Cobalt Alloy	4.15"L X 2.04"W X 1.3"H X .6 LBS	Y	804351	77445	2J-TF33-4, -34, -44

*Supplying Warfighter Dominance*



# TF33 Turbine Nozzle Vanes

## Alternate Sourcing - Repair Tinker AFB - 421 SCMS



Stage/Class	NSN	PN	PN CAGE	BUY PRICE	DOLP	REPAIR PRICE	AAC	SURPLUS AVAILABLE (ILSMART)	QPA/APPL %	REPL %	BUY & REPAIR RQMTS FY19-FY23	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS (INCHES)	CRIT CODE	DWG #	DWG CAGE	T.O. NUMBER	NHA/APPL
2nd / 12	2840-00-757-0303	798452CL12	77445	\$368.90	5/4/1985	\$51.00	C	87	76/11% (005) 76/11% (009) 76/20%(102C) 76/33%(103)	100	0/0/0/0/0 1089/2415/2495/2853/2081	N/Y/Y/Y	4R 1C	Nickel Alloy	5"L X 2"W X 2"H X 2 LBS	Y	798452	77445	2J-TF33-4, -34	TF33-005/-009/-102C/-103
1st / 21	2840-01-394-5883	804351CL21	77445	\$832.05	2/16/2007	\$213.00	C	2	63/13% (005) 63/13% (009) 63/19%(100A) 63/17%(102C)	100	0/0/0/0/0 405/785/815/809/623	Y/Y/Y/Y	3R 1C	Cobalt Alloy	4.15"L X 2.04"W X 1.3"H X .6 LBS	Y	804351	77445	2J-TF33-4, -34, -44	TF33-005/-009/-100A/-102C
2nd / 11	2840-00-757-0307	798452CL11	77445	\$368.90	5/4/1985	\$51.00	C	478	76/14% (005) 76/14% (009) 76/30%(102C)	100	0/0/0/0/0 360/609/727/694/625	N/Y/N/Y	3R 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	798452	77445	2J-TF33-4, -34	TF33-005/-009/-102C
2nd / 9	2840-00-803-6721	798452CL9	77445	\$368.90	5/4/1985	\$51.00	C	22	76/38% (005) 76/38% (009) 76/18%(102C)	100	0/0/0/0/0 163/400/460/434/394	N/Y/Y/Y	3P 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	798452	77445	2J-TF33-4, -34	TF33-005/-009/-102C
2nd / 10	2840-00-673-2210	798452CL10	77445	\$368.90	5/4/1985	\$51.43	C	0	76/37% (005) 76/37% (009) 76/32%(102C)	100	0/0/0/0/0 392/661/789/754/676	N/Y/N/Y	3C 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	798452	77445	2J-TF33-4, -34	TF33-005/-009/-102C
1st / 24	2840-01-394-5229	804351CL24	77445	\$1,126.68	10/26/2011	\$213.00	C	0	63/28% (005) 63/28% (009)	0	0/0/0/0/0 0/0/0/0/0	Y/Y/Y/Y	1R 1C	Cobalt Alloy	4.98"L X 5.03" (max) - Flow area - 1.4" (min) to 1.5" (max)	Y	804351	77445	2J-TF33-4, -34, -44	TF33-005/-009
3rd / 5	2840-00-962-1262	799353CL5	77445	\$368.90	5/4/1985	\$52.97	C	140	95/25% (005) 95/25% (009)	0	0/0/0/0/0 0/0/31/51/52	Y/Y/Y/Y	4H 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	F	799353	77445	2J-TF33-4, -34, -44	TF33-005/-009

*Supplying Warfighter Dominance*



# TF33 Turbine Nozzle Vanes

## Alternate Sourcing - Repair Tinker AFB - 421 SCMS



Stage/Class	NSN	PN	PN CAGE	BUY PRICE	DOLP	REPAIR PRICE	AAC	SURPLUS AVAILABLE (ILSMART)	QPA/APPL %	REPL %	BUY & REPAIR RQMTS FY19-FY23	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS (INCHES)	CRIT CODE	DWG #	DWG CAGE	T.O. NUMBER	NHA/APPL
3rd / 1	2840-00-962-1255	799353CL1	77445	\$368.90	5/4/1985	\$51.00	C	106	95/10% (102C) 95/14% (103)	100	0/0/0/0/0 720/1276/1324/1508/1094	N/Y/N/Y	2C 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	799353	77445	2J-TF33-4, -34, -44	TF33-102C/103
2nd / 11	2840-00-966-3028	565852CL11	77445	\$368.90	5/4/1985	\$51.00	C	0	76/25% (100A)	100	608/226/239/297/219 863/837/405/415/299	N/Y/Y/Y	4R 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	565852	77445	2J-TF33-44	TF33-100A
2nd / 12	2840-00-966-3029	565852CL12	77445	\$368.90	5/4/1985	\$51.00	C	9	76/38% (100A)	100	394/348/364/454/337 645/1255/1137/630/457	N/Y/Y/Y	1C 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	565852	77445	2J-TF33-44	TF33-100A
2nd / 13	2840-00-966-3030	489152CL13	77445	\$368.90	5/1/1985	\$51.00	C	0	76/37% (100A)	100	0/0/0/0/0 955/535/0/703/758	N/Y/N/Y	2C 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	None	NA	2J-TF33-44	TF33-100A
1st / 17	2840-01-394-5230	804351CL17	77445	\$1,126.68	10/26/2011	\$213.00	C	0	63/13% (102C)	100	0/0/0/0/0 316/228/360/336/308	Y/Y/Y/Y	3H 1C	Steel Alloy	4"L X 1.43"W X 3"H X 2 LBS	Y	804351	77445	2J-TF33-4, -34, -44	TF33-102C
1st / 18	2840-01-394-5231	804351CL18	77445	\$1,151.28	4/14/2012	\$213.00	C	0	63/30% (100A) 63/24% (102C) 63/27% (103)	100	0/0/0/0/0 2159/1924/2412/2580/1967	Y/Y/Y/Y	3R 1C	Cobalt Alloy	4.15"L X 2.04"W X 1.3"H X .5 LBS	Y	804351	77445	2J-TF33-4, -34, -44	TF33-100A/-102C/-103
1st / 16	2840-01-394-5225	804351CL16	77445	\$1,126.68	10/26/2011	\$213.00	C	0	NA	NA	0/0/0/0/0 0/28/80/64/64	Y/Y/Y/Y	3R 1C	Cobalt Alloy	4.000"L X 1.4180"W X 3.000"H X 2.000 LBS	Y	804351	77445	2J-TF33-4	TF33
2nd / 13	2840-00-757-0304	798452CL13	77445	\$368.90	5/4/1985	\$51.00	C	200	76/33% (103)	100	0/0/0/0/0 858/1939/1940/2302/1576	N/Y/N/Y	3C 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	798452	77445	2J-TF33-4, -34	TF33-103
2nd / 14	2840-00-757-0305	798452CL14	77445	\$368.90	5/4/1985	\$51.00	C	64	76/34% (103)	100	0/0/0/0/0 1398/1996/1996/2369/1624	N/Y/N/Y	3C 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	798452	77445	2J-TF33-4, -34	TF33-103

*Supplying Warfighter Dominance*



# TF33 Turbine Nozzle Vanes

Alternate Sourcing - Repair  
Tinker AFB - 421 SCMS



Stage/Class	NSN	PN	PN CAGE	BUY PRICE	DOLP	REPAIR PRICE	AAC	SURPLUS AVAILABLE (ILSMART)	QPA/APPL %	REPL %	BUY & REPAIR RQMTS FY19-FY23	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS (INCHES)	CRIT CODE	DWG #	DWG CAGE	T.O. NUMBER	NHA/APPL
2nd / 9	2840-00-966-8081	565852CL9	77445	\$368.90	5/4/1985	\$51.43	C	8	0/0	0	0/0/0/0/0 0/0/0/0/0	N/Y/N/Y	2C 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	565852	77445	2J-TF33-44	None
2nd / 15	2840-00-673-2162	798452CL15	77445	\$368.90	5/4/1985	\$51.43	V	25	0/0	0	0/0/0/0/0 0/0/0/0/0	N/Y/N/Y	0/0 1C	Nickel Alloy	3"L X 3.5"W X 3"H X .7 OZ	Y	798452	77445	2J-TF33-4, -34	TF33-100A
2nd / 10	2840-00-966-3027	565852CL10	77445	\$368.90	5/4/1985	\$51.43	C	0	0/0	0	0/0/0/0/0 0/0/0/0/0	N/Y/N/Y	2C 1C	Nickel Alloy Overall	3.000"L X 3.5000"W X 3.0000"H X 0.7000 OZ	Y	489152 & 565852	77445	2J-TF33-14, -44	TF33-100A
4th Stage	2840-00-962-1263	799554CL6	77445	\$368.90	5/4/1985	\$51.00	C	28	89 @ 26	100	2378/777/767/981/776 2006/2696/2047/2264/1716	N/Y/Y/Y	3P 1C	Nickel Alloy - AMS5388	3L, 3.5W, 3H, 0.7000 OZ	Y	799544	77445	2J-TF33-4, -34, -44	TF33 Multiple
NA	2840-00-962-1264	799554CL7	77445	\$368.90	5/4/1985	\$51.00	C	0	89 @ 31	100	2904/901/881/1109/878 2630/2705/2308/2563/1939	N/Y/Y/Y	4P 1C	Nickel Alloy	3L, 3.5W, 3H, .7000 OZ	Y	799554	77445	2J-TF33-4	TF33 Multiple

Supplying Warfighter Dominance





# Turbine Nozzle Supports/Misc

Alternate Sourcing - Repair

Tinker AFB - 421 SCMS



MDS/TMS: **E-8C/102C, B-52H/103, E-3A/100**

Noun: **See worksheet**

NSN: **See worksheet**

PN: **See worksheet**

Buy Price: **See worksheet**

Date of Last Procurement (DOLP): **See worksheet**

Repair Price: **See worksheet**

AAC: **C**

Surplus Available (ILSmart): **See worksheet**

QPA & Appl %: **See worksheet**

Replacement Rate%: **See worksheet**



Out Year Requirements (Buy/Repair)

**See worksheet**

## Details/Issues

- **DMSMS Report not available**
- **Interested vendors should submit a Source Approval Request (SAR)**

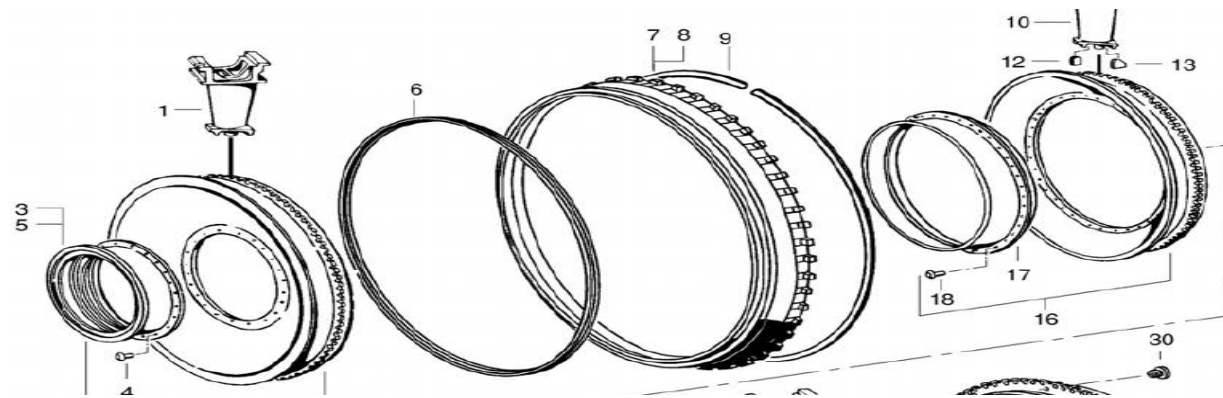
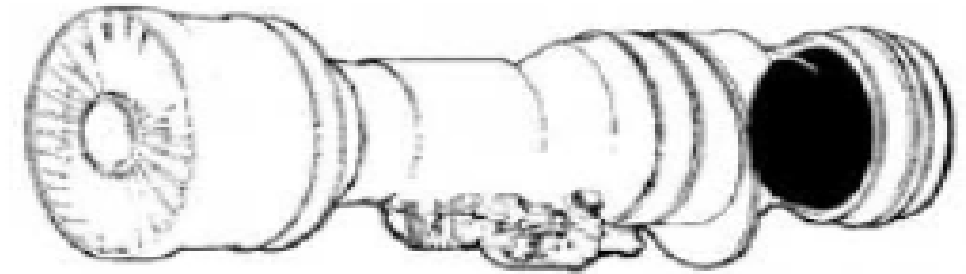


# Turbine Nozzle Supports/Misc



**Alternate Sourcing - Repair**  
Tinker AFB - 421 SCMS

AMC/AMSC: **See wkst** RMC/RMSC: **See wkst**  
Material: **See worksheet**  
Dimensions: **See worksheet**  
Criticality Code: **See worksheet**  
Drawings Avail: **Partial** Drawings#: **See wkst**  
Drawing Cage Code: **77445**  
T.O. Avail: **Partial** T.O.#: **See wkst**  
Budget Code: **8**  
Mesh File Avail: **No** #  
Next Higher Assembly/Application: **See worksheet**



If you would like to participate in the Technical Discussion on **22 Aug 2019, at 9:30-10:30 a.m. (CST)**, provide the following information NLT **19 Aug 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# Turbine Nozzle Supports/Misc

**Alternate Sourcing – Repair**  
**Tinker AFB - 421 SCMS**



NOUN	NSN	PN	PN CAGE	BUY PRICE	DOLP	REPAIR PRICE	SURPLUS	QPA/APPL %	REPL %	BUY & REPAIR RQMTS FY19-FY23	EDL/RDL/761/762 AVAILABLE	AMC/AMSC RMC/RMSC	MATERIAL	DIMENSIONS (INCHES)	CRIT CODE	DWG #	DWG CAGE	T.O. NUMBER	NHA/APPL
Combustion Clamp	2840-00-169-0191	622382	77445	\$1,313.17	4/16/1988	\$210.00	0	8 @ 100	60	0/0/0/0/0 27/627/707/750/566	Y/Y/Y/Y	1C 1C	Nickel Alloy	10L, 2.6W, 10H, 5LBS	Y	622382	77445	2J-TF33-4, -34, -44	TF33 Multiple
Turbine Nozzle Support	2840-01-038-3217	767922	77445	\$51,562.55	12/4/2018	\$4,000.00	6	4 @ 100	64	0/37/23/20/21 59/72/41/49/38	Y/Y/Y/Y	3P 1C	Inconel	23.935L, 23.923W, 6.41H, 40LBS	F	767922	77445	2J-TF33-4, -34	TF33 Multiple
Turbine Nozzle Support	2840-01-036-4842	767921	77445	\$39,994.74	5/15/2017	\$4,347.68	2	1 @ 100	68	0/0/0/0/0 9/37/35/29/14	Y/Y/Y/Y	3P 1C	Inconel	24L, 24W, 6.2500H, 40LBS	F	399080	77445	2J-TF33-4	TF33-100A
Turbine Exhaust Case Assy	2840-00-967-3951	802404	77445	\$78,208.56	12/8/2014	\$9,200.00	0	2 @ 100	50	0/0/0/0/0 32/32/15/12/8	N/Y/Y/Y	3P 1C	AMS5616 Stainless Steel	38.4L, 38.4W, 11.35H, 30LBS	Y	802404	77445	2J-TF33-44	Turbine Case, NSN 2840-01-425-7295

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# *Inter-Continental Ballistic Missile (ICBM)*



*Supplying Warfighter Dominance*

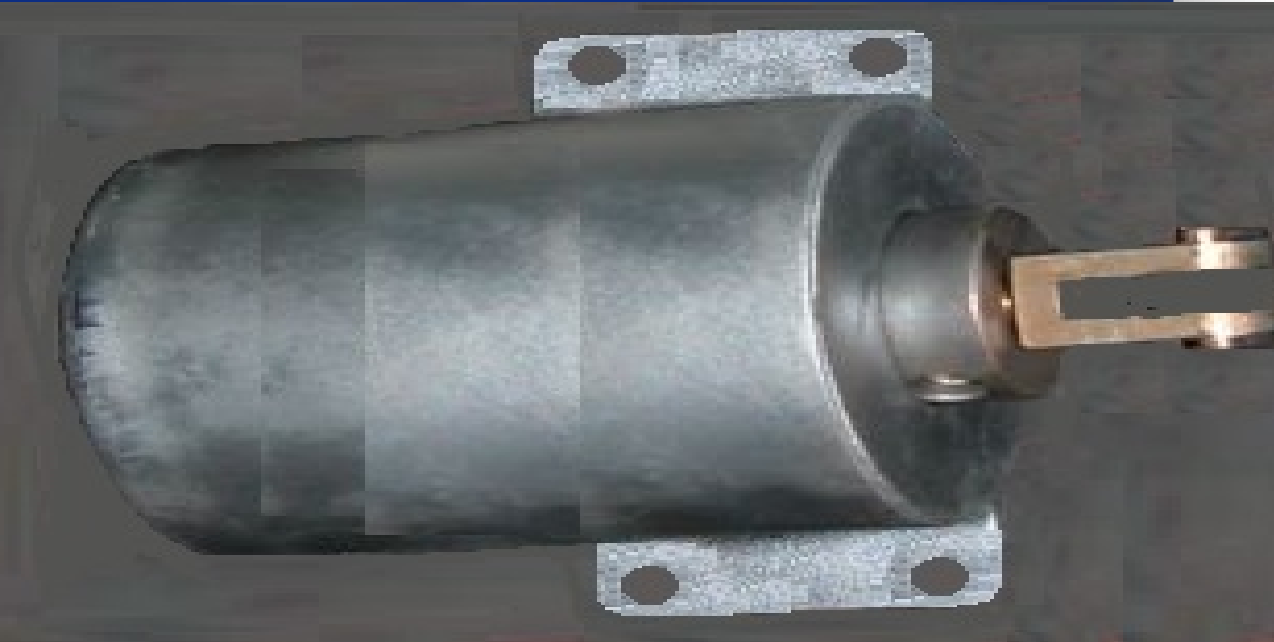


# Final Assembly Solenoid



**Alternate Sourcing - New Buy**  
Hill AFB – 414 SCMS

MDS/TMS: **ICBM/LGM30**  
Noun: **Final Assembly Solenoid**  
NSN: **5945-01-317-9702**  
PN: **1005489**  
Buy Price: **\$994.46**  
Date of Last Procurement: **03/01/2011**  
Repair Price: **N/A**  
AAC: **V**  
Surplus Available: **Yes via ILSmart**  
QPA & Appl %: **4 @ 100**  
Replacement Rate%: **100%**



### Out Year Requirements (Buy/Repair)

FY20: **48** FY21: **48** FY22: **48** FY23: **48** FY24: **48**  
FY20: **0** FY21: **0** FY22: **0** FY23: **0** FY24: **0**

### Details/Issues

- Interested vendors should look on Fed-Biz Ops (FBO) for future solicitations
- Testing requirements/performance called out from drawings
- Identify new source(s) for solenoid; current “no bid” - OEM
- Need vendor to subcontract Hardened Critical Item (HCI) testing (shock, vibration, EMI) at government facilities or industry facilities with government approval
- Required first article testing on sample production lots for solenoid
- Require first article inspection on each component, subassembly and final assembly

761 (Y) 762 (N) EDL (Y) RDL (N)



# Final Assembly Solenoid

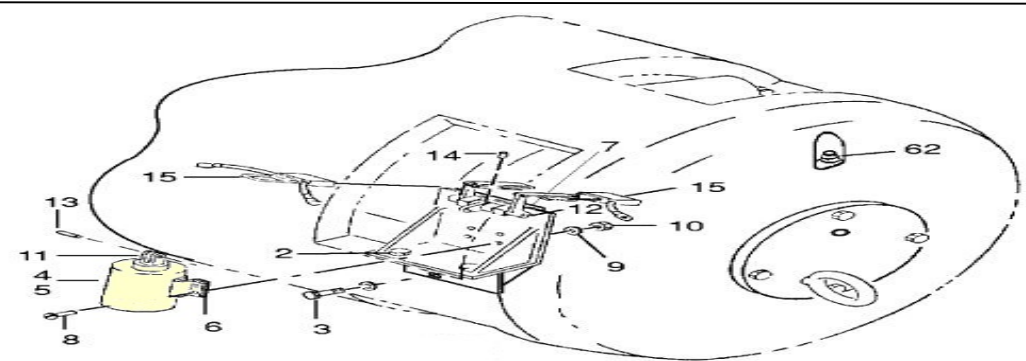
Alternate Sourcing - New Buy  
Hill AFB – 414 SCMS



AMC/AMSC: **1/G**                      RMC/RMSC: **N/A**  
 Material: **Carbon steel, brass, steel tube, beryllium copper and silver**  
 Dimensions: **L: 1.8" x W: 2.5"**  
 Criticality Code: **M**  
 Drawings Avail: **Yes**                      Drawings#: **1005489**  
 T.O. Avail: **No**                              T.O.#:  
 Budget Code: **9**  
 Drawing Cage Code: **08719**  
 Mesh File Avail: **No**                      #  
 Next Higher Assembly: **LGM-30/Motor Generator Assembly /NSN 6125-01-034-3374**

## DMSMS Report

**No DMSMS Report**



If you would like to participate in the Technical Discussion on **20 Aug 2019, at 9:30-10:00 a.m. (CST)**, provide the following information NLT **19 Aug 2019**

- [429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)
- Company, address, name(s), email(s), phone
  - Your questions for engineering



# *Mini-MUTES*



*Supplying Warfighter Dominance*



# Traveling Wave Tube

**Alternate Source - New Buy & Repair**

**Hill AFB – 415 SCMS**



MDS/TMS: **Mini-MUTES / TMS: N/A**

Noun: **Traveling Wave Tube**

NSN: **5960-01-493-3948**

PN: **670HA**

Buy Price: **\$13,104.70**

Date of Last Procurement: **2/1/2002**

Repair Price: **\$4,455.59**

AAC: **C**

Surplus Available: **No via ILSmart**

QPA & Appl %: **1 @ 100%**

Replacement Rate%: **0**



## Out Year Requirements (Buy/Repair)

FY20: <b>1</b>	FY21: <b>2</b>	FY22: <b>1</b>	FY23: <b>2</b>	FY24: <b>1</b>
FY20: <b>0</b>	FY21: <b>2</b>	FY22: <b>0</b>	FY23: <b>0</b>	FY24: <b>0</b>

## Details/Issues

- **Technical Order is available**
- **Both new buy and repair requests were “No Bid”**

761 (N)

762 (Y)

EDL (N)

RDL (Y)





# Traveling Wave Tube

Alternate Source - New Buy & Repair

Hill AFB – 415 SCMS



AMC/AMSC: **NA**                      RMC/RMSC: **0/0**  
 Material: **NA**  
 Dimensions: **11.14" Min/11.26" Ma X 2.37"H X 2"W**  
 Criticality Code: **X**  
 Drawings Avail: **No**                      Drawings#: **670HA**  
 T.O. Avail: **Yes**                      T.O.#: **33A1-2-287-1**  
 Budget Code: **8**  
 Drawing Cage Code: **1L7Y9**  
 Mesh File Avail: **No**                      #  
 Next Higher Assembly: **Mini-MUTES Radar Transmitter**

## DMSMS Report

**DMSMS Report – Not Available**



If you would like to participate in the Technical Discussion on **20 Aug 2019, at 10:30-11:00 a.m. (CST)**, provide the following information NLT **19 Aug 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# Electron Tube

**Alternate Source - Repair**

**Hill AFB – 415 SCMS**



MDS/TMS: **MUTES / TMS: N/A**  
 Noun: **Electron Tube**  
 NSN: **5960-01-107-2549**  
 PN: **L-5714-50**                      PN CAGE: **80080**  
 Buy Price: **\$66,990.20**  
 Date of Last Procurement: **4/20/2009**  
 Repair Price: **\$54,077.63**  
 AAC: **C**  
 Surplus Available: **No via ILSmart**  
 QPA & Appl %: **1 @ 100%**  
 Replacement Rate%: **4**



### Out Year Requirements (Buy/Repair)

FY20: **0**   FY21: **0**   FY22: **0**   FY23: **0**   FY24: **0**  
 FY20: **5**   FY21: **6**   FY22: **6**   FY23: **6**   FY24: **6**

### Details/Issues

- **Interested vendors should submit a Source Approval Request (SAR)**
- **Alternate source must quality IAW the design control activity procedures**

761 (Y)      762 (Y)      EDL (Y)      RDL (Y)



# Electron Tube

Alternate Source - Repair

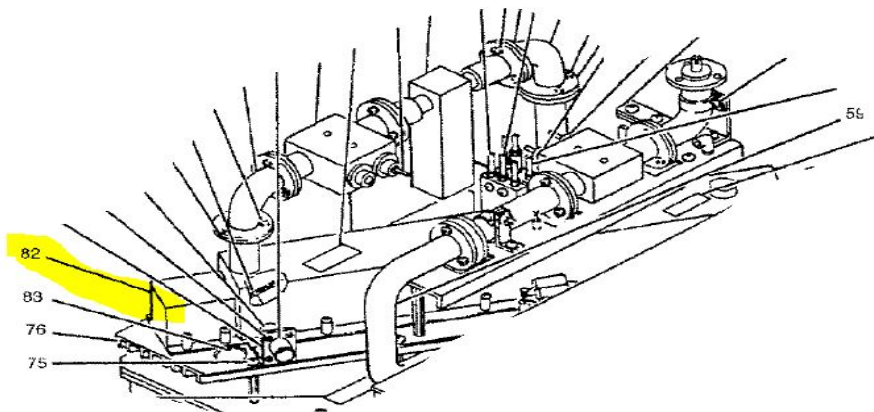
Hill AFB – 415 SCMS



AMC/AMSC: **1 / G**      RMC/RMSC: **3 / C**  
Material: **Steel Casing, Cathode, Anode, Brass, Copper**  
Dimensions: **30”L X 8”W X 9”H X 38 LBS**  
Criticality Code: **X**  
Drawings Avail: **Yes**      Drawings#: **654VE0007**  
T.O. Avail: **Yes**      T.O.#: **43D7-19-2-4**  
Budget Code: **8**  
Drawing Cage Code: **81755**  
Mesh File Avail: **No**      #  
Next Higher Assembly: **Radar Transmitter/OR350V4**

DMSMS Report

**DMSMS Report Not Available**



If you would like to participate in the Technical Discussion on **18 Sep 2019, at 2:00-2:30 p.m. (CST)**, provide the following information NLT **11 Sep 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# Oscillating Group

Alternate Source - Repair

Hill AFB – 415 SCMS



MDS/TMS: **MUTES / TMS: N/A**

Noun: **Oscillating Group**

NSN: **5955-01-097-3064**

PN: **654VE4851-2** PN CAGE: **81755**

Buy Price: **\$35,817.60**

Date of Last Procurement: **7/25/2013**

Repair Price: **\$18,949.70**

AAC: **C**

Surplus Available: **No via ILSmart**

QPA & Appl %: **1 @ 100%**

Replacement Rate%: **0%**



## Out Year Requirements (Buy/Repair)

FY20: **0** FY21: **0** FY22: **0** FY23: **0** FY24: **0**

FY20: **7** FY21: **6** FY22: **6** FY23: **7** FY24: **6**

## Details/Issues

- **Currently backorders for qty 6 and 1 MICAP**
- **Interested vendors should submit a Source Approval Request (SAR)**
- **Government does not own the technical data**
- **SCD 654VE4851 is adequate for qualification of a new source with required information and Engineering approval**

761 (Y)

762 (Y)

EDL (Y)

RDL (Y)



# Oscillating Group

Alternate Source - Repair

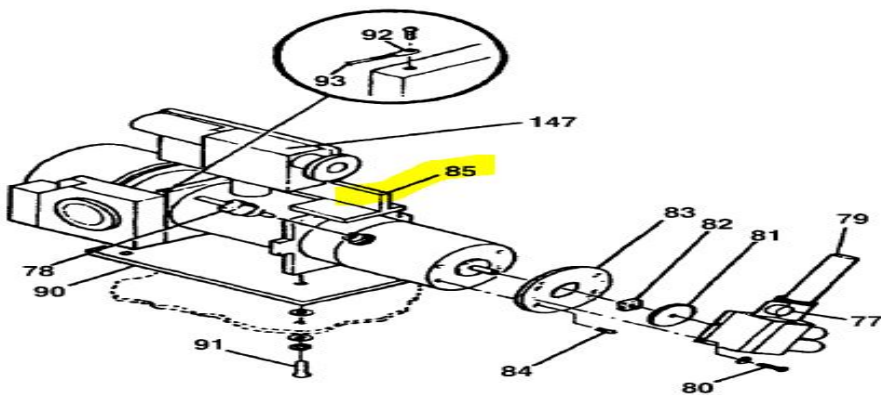
Hill AFB – 415 SCMS



AMC/AMSC: **1 / C**      RMC/RMSC: **1 / C**  
Material: **Steel Tube, Brass Choke, Cathodes**  
Dimensions: **17.9”L X 10.75”W X 8.58”H X 50 LBS**  
Criticality Code: **X**  
Drawings Avail: **Yes**      Drawings#: **654VE4851**  
T.O. Avail: **Yes**      T.O.#: **43D7-19-4-4**  
Budget Code: **8**  
Drawing Cage Code: **81755**  
Mesh File Avail: **No**      #  
Next Higher Assembly: **Radar Transmitter/OR350V4**

DMSMS Report

**DMSMS Report Not Available**



If you would like to participate in the Technical Discussion on **19 Sep, 9:00-9:30 a.m. (CST)**, provide the following information NLT **11 Sep 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# Range Threat Systems



*Supplying Warfighter Dominance*



# Power Supply

Reverse Engineering

Hill AFB – 415 SCMS



MDS/TMS: **Range Threat Systems**

Noun: **Power Supply**

NSN: **6130-01-085-7256**

PN: **227-8012A** PN CAGE: **13850**

Buy Price: **\$4,386.48**

Date of Last Procurement: **2/1/2010**

Repair Price: **NA**

AAC: **Y**

Surplus Available: **No via ILSmart**

QPA & Appl %: **1 @ 100%**

Replacement Rate%: **0%**



## Out Year Requirements (Buy/Repair)

FY20: **00** FY21: **00** FY22: **00** FY23: **00** FY24: **00**

FY20: **N/A** FY21: **N/A** FY22: **N/A** FY23: **N/A** FY24: **N/A**

## Details/Issues

- **NSN cancelled as of 1 August 2019**
- **Low demand item, 5 ordered August 2017 thru May 2019**

761 (N)

762 (N)

EDL (N)

RDL (N)



# Power Supply

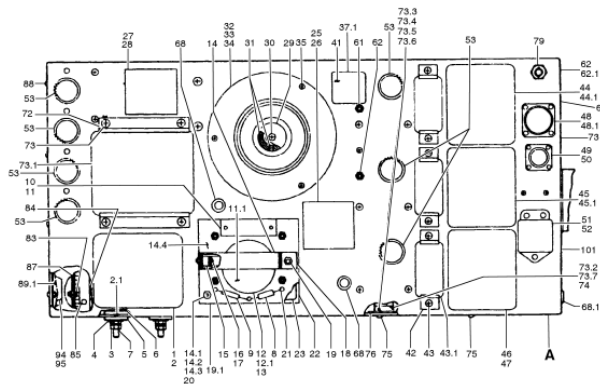
Reverse Engineering  
Hill AFB – 415 SCMS



AMC/AMSC: **3 / D**                      RMC/RMSC: **NA**  
 Material: **Unknown**  
 Dimensions: **5.094" min and 5.344" max L X 3.062" nominal H X 3.437" min and 3.562" max W**  
 Criticality Code: **X**  
 Drawings Avail: **NA**                      Drawings#: **NA**  
 T.O. Avail: **Yes**                              T.O.#: **43D7-11-21-4**  
 Budget Code: **9**  
 Drawing Cage Code: **NA**  
 Mesh File Avail: **No**                              #  
 Next Higher Assembly: **Radar Training Set, Part Number 583Z1000M1**

## DMSMS Report

**DMSMS Report Not Available**



If you would like to participate in the Technical Discussion on **19 Sep, 9:30-10:00 a.m. (CST)**, provide the following information NLT **11 Sep 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering





# 416 SCMS – What We Manage



- **Management of items to include:**
  - Aircraft Structures, Avionics, and Electronics
    - A-10, F-16, T-38, T-X
    - Supporting F-35 SCM Assessments
    - Trainers (Simulators)
    - Support Equipment (Weapon Systems Unique)
    - Munitions (Support Equipment)
  
- **Buy/Repair Budget Approximately \$674M+**
  - \$130M Buy
  - \$544M Repair
  
- **NSNs Managed - ~7,500 Items/\$5.9B**
  - Buy, Repair, Distribution, Disposal
  - Engineering Authority
  - Technical Support
  - Modifications



*Supplying Warfighter Dominance*



# ***F-16 Falcon***



***Supplying Warfighter Dominance***



# Fuel Cell

Alternate Source - New Buy  
Hill AFB - 416 SCMS



MDS/TMS: **F-16A & C / N/A**

Noun: **Fuel Cell**

NSN: **1560-01-322-9987**

PN: **16VB004001-3**

Buy Price: **\$21,943.00**

Date of Last Procurement: **3/5/2019**

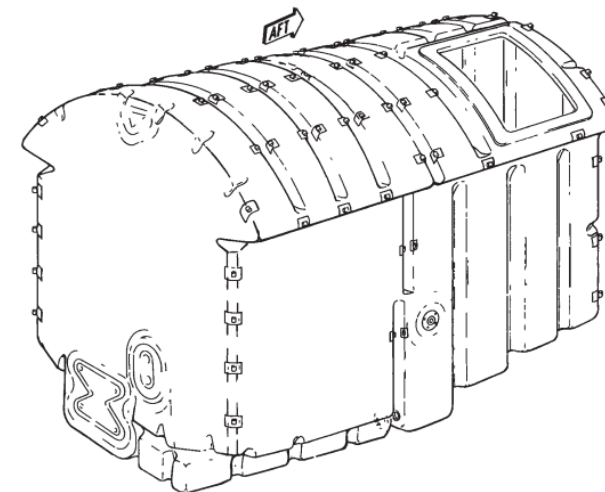
Repair Price: **\$3,011.75**

AAC: **C**

Surplus Available: **No via ILSmart**

QPA & Appl %: **1 @ 100%**

Replacement Rate%: **2%**



### Out Year Requirements (Buy/Repair)

FY20: <b>0</b>	FY21: <b>0</b>	FY22: <b>18</b>	FY23: <b>10</b>	FY24: <b>20</b>
FY20: <b>3</b>	FY21: <b>21</b>	FY22: <b>19</b>	FY23: <b>16</b>	FY24: <b>15</b>

### Details/Issues

- Interested vendors should submit a Source Approval Request (SAR)
- Difficult to produce/high condemnations
- Additional procurement capacity needed to support the current and future requirements
- Source qualification requirements provided upon request
- Historical yearly spend of ~\$1.75M-2.5M
- Test stand required, not available. Possible support for fixtures

761 (Y)	762 (N)	EDL (Y)	RDL (N)
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# Fuel Cell

Alternate Source - New Buy

Hill AFB - 416 SCMS



AMC/AMSC: **3/C**

RMC/RMSC: **N/A / N/A**

Material: **Plastic polyamide and rubber**

Dimensions: **200 gallon capacity**

Criticality Code: **F**

Drawings Avail: **No**

Drawings#: **16VB004001**

T.O. Avail: **No**

T.O.#: **1F-16CJ-4-28**

Budget Code: **8**

Drawing Cage Code: **81755**

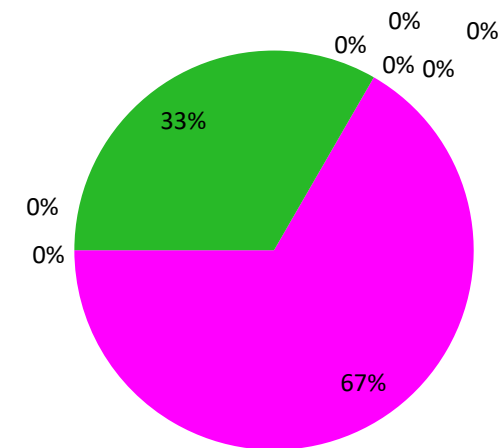
Mesh File Avail: **No** #

Next Higher Assembly: **F-16A & C**

## DMSMS Report

Obsolete	0
Sole Source	0
Two or More	0
Unknown	0
Proprietary	0
Logistics	2
NA	0
Build To Print	0
Common Industrial Item	1

Obsolescence Health - Uniques



**IPB Diagram – Not Available**

If you would like to participate in the Technical Discussion on **20 Aug 2019, at 1:30-2:00 p.m. (CST)**, provide the following information NLT **19 Aug 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering

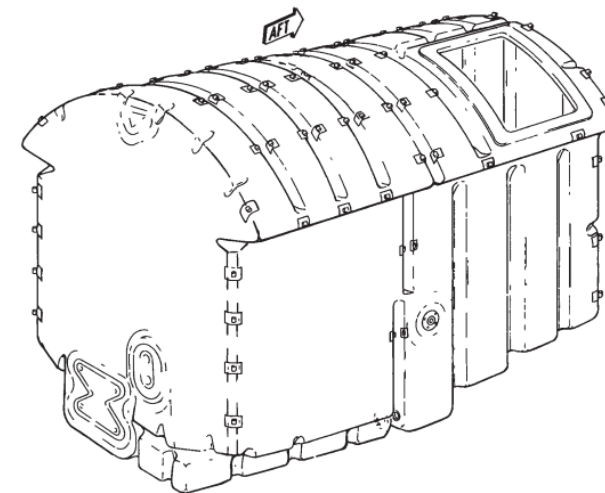


# Fuel Cell

**Alternate Source - New Buy**  
**Hill AFB - 416 SCMS**



MDS/TMS: **F-16B &D / N/A**  
Noun: **Fuel Cell**  
NSN: **1560-01-224-0803**  
PN: **16VB004002-7**  
Buy Price: **\$15,647.00**  
Date of Last Procurement: **3/5/2019**  
Repair Price: **\$2,388.95**  
AAC: **C**  
Surplus Available: **No via ILSmart**  
QPA & Appl %: **1 @ 100%**  
Replacement Rate%: **19%**



### Out Year Requirements (Buy/Repair)

FY20: **8** FY21: **12** FY22: **12** FY23: **14** FY24: **14**  
FY20: **7** FY21: **8** FY22: **8** FY23: **8** FY24: **7**

### Details/Issues

- Interested vendors should submit a Source Approval Request (SAR)
- Difficult to produce/high condemnations
- Additional procurement capacity needed to support the current and future requirements
- Source qualification requirements provided upon request
- Historical yearly spend of ~\$1.75M-2.5M
- Test stand required, not available. Possible support for fixtures

761 (Y) 762 (N) EDL (Y) RDL (N)



# Fuel Cell

Alternate Source - New Buy

Hill AFB - 416 SCMS



AMC/AMSC: **1/C**

RMC/RMSC: **N/A / N/A**

Material: **Plastic polyamide and rubber**

Dimensions: **80 gallon capacity**

Criticality Code: **F**

Drawings Avail: **No**

Drawings#: **16VB004002**

T.O. Avail: **No**

T.O.#: **1F-16CJ-4-28**

Budget Code: **8**

Drawing Cage Code: **81755**

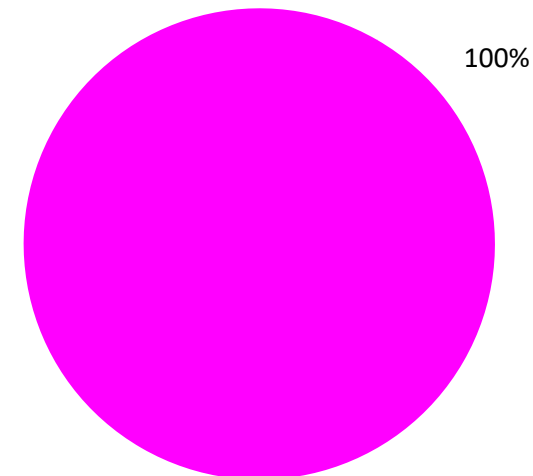
Mesh File Avail: **No** #

Next Higher Assembly: **F-16B & D**

## DMSMS Report

Obsolete	0
Sole Source	0
Two or More	0
Unknown	0
Proprietary	0
Logistics	2
NA	0
Build To Print	0
Common Industrial Item	0

Obsolescence Health - Uniques



**IPB Diagram – Not Available**

If you would like to participate in the Technical Discussion on **20 Aug 2019, at 1:30-2:00 p.m. (CST)**, provide the following information NLT **19 Aug 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# ***E8 Joint STARS***



***Supplying Warfighter Dominance***



# Intermediate Frequency (IF) Switch

Alternate Source - New Buy

Robins AFB – LCMC



MDS/TMS: **E-8 JSTARS**

Noun: **IF Switch**

NSN: **5895-01-435-7900**

PN: **153-252-0002**

Buy Price: **\$24,744.00**

Date of Last Procurement: **5/1/2013**

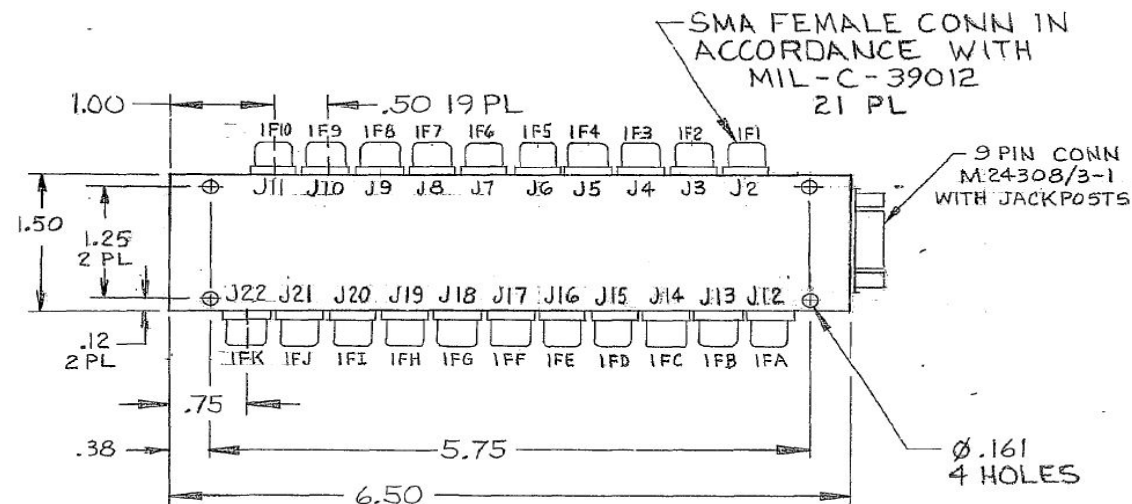
Repair Price: **N/A**

AAC: **V**

Surplus Available: **No via ILSmart**

QPA & Appl %: **N/A**

Replacement Rate%: **N/A**



## Out Year Requirements (Buy/Repair)

FY20: **1** FY21: **0** FY22: **0** FY23: **1** FY24: **0**

FY20: **0** FY21: **0** FY22: **0** FY23: **0** FY24: **0**

## Details/Issues

- Part is unique to the JSTARS Radar
- Drawings are available to approved sources
- No surplus stock available

761 (N)

762 (N)

EDL (N)

RDL (N)





# Intermediate Frequency (IF) Switch

Alternate Source - New Buy

Robins AFB – LCMC



AMC/AMSC: **N/A**                      RMC/RMSC: **N/A**  
 Material: **NA**  
 Dimensions: **0.65”L X 0.15”H X 0.7”W**  
 Criticality Code: **X**  
 Drawings Avail: **Yes**                      Drawings#: **153-252**  
 T.O. Avail: **No**                              T.O.#: **NA**  
 Budget Code: **9**  
 Drawing Cage Code: **95542**  
 Mesh File Avail: **No**                      #  
 Next Higher Assembly: **RF/IF Distribution Assembly**

## DMSMS Report

**DMSMS Report Not Available**

**Side View**



If you would like to participate in the Technical Discussion on **21 Aug 2019, at 10:00-10:30 a.m. (CST)**, provide the following information NLT **19 Aug 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# Cylinder Head

Reverse Engineering

Robins AFB – 410 SCMS



MDS/TMS: **E-3B & JSTARS**

Noun: **Cylinder Head**

NSN: **2815-01-447-6293**

PN: **23506328**

PN CAGE: **72582**

Buy Price: **\$5,894.54**

Date of Last Procurement: **3/28/2012**

Repair Price: **\$4,200.00**

AAC: **D**

Surplus Available: **No via ILSmart**

QPA & Appl %: **2 @ 100%**

Replacement Rate%:

### Out Year Requirements (Buy/Repair)

FY20: **2** FY21: **2** FY22: **2** FY23: **2** FY24: **2**

FY20: **0** FY21: **0** FY22: **0** FY23: **0** FY24: **0**



### Details/Issues

- **Next higher assembly, generator diesel engine, provides power for large aircraft during maintenance**
- **T.O. manual has USAF cover that states it is Distribution Statement B, however actual manual is a COTS manual accessible online**

761 (Y)

762 (N)

EDL (N)

RDL (N)



# Cylinder Head

Reverse Engineering  
Robins AFB – 410 SCMS



AMC/AMSC: **3/Z**                      RMC/RMSC: **N/A**  
 Material: **Cast Iron**  
 Dimensions: **18”L X 9”W X 11”H X 162 LBS**  
 Criticality Code: **X**  
 Drawings Avail: **No**                      Drawings#:  
 T.O. Avail: **No**                              T.O.#: **38G1-122-4**  
 Budget Code: **8**  
 Drawing Cage Code: **N/A**  
 Mesh File Avail: **No**                      #  
 Next Higher Assembly: **6V92TA Diesel Engine**

## DMSMS Report

**DMSMS Report – Not Available**

**IPB Diagram – Not Available**

If you would like to participate in the Technical Discussion on **17 Sep 2019, at 9:00-9:30 a.m. (CST)**, provide the following information NLT **11 Sep 2019**  
[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# C-17 Galaxy



*Supplying Warfighter Dominance*



# Torque Wrench Adapter

Alternate Source - New Buy

Robins AFB – 404 SCMS



MDS/TMS: **C-17A**

Noun: **Torque Wrench Adapter**

NSN: **5120-00-130-0420**

PN: **4S94365-101A**

Buy Price: **\$827.26**

Date of Last Procurement: **NA**

Repair Price: **N/A**

AAC: **J**

Surplus Available: **No via ILSmart**

QPA & Appl %: **NA**

Replacement Rate%: **NA**



## Out Year Requirements (Buy/Repair)

FY20: **1** FY21: **1** FY22: **0** FY23: **0** FY24: **0**

FY20: **0** FY21: **0** FY22: **0** FY23: **0** FY24: **0**

## Details/Issues

- Interested vendors should look on FBO for future solicitations
- Adapter used for maintenance of Slip Clutch in Cargo Winch Assembly
- Gov't owns all Technical data
- The only drawing available is a Spec Control Drawing
- Currently Quantity 1 on backorder
- Unable to contact OEM; no replies received from vendors on RFIs

761 (Y)

762 (N)

EDL (Y)

RDL (N)



# Torque Wrench Adapter

Alternate Source (New Buy)

Robins AFB – 404 SCMS



AMC/AMSC: **2/G**

Material: **Steel**

Dimensions: **NA**

Criticality Code: **X**

Drawings Avail: **Yes**

T.O. Avail: **No**

Budget Code: **Y**

Drawing Cage Code: **98897**

Mesh File Avail: **No**

Next Higher Assembly: **N/A – Support Equipment**

RMC/RMSC: **N/A**

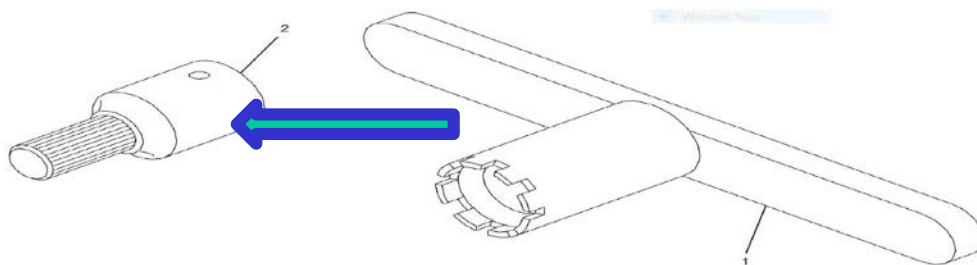
Drawings#: **4S94365**

T.O.#: **13C1-36-2**

#

DMSMS Report

**No DMSMS Report Available**



**LEGEND**

1. WRENCH, LOCKNUT, SPROCKET WHEEL

2. ADAPTER, TORQUE WRENCH

ICN-88277-VTC00211-001-01

Figure 2-1. Clutch Assembly-Adjustment Tools

If you would like to participate in the Technical Discussion on **21 Aug 2019, at 12:30-1:00 p.m. (CST)**, provide the following information NLT **19 Aug 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# ***USAF Aircraft***



***Supplying Warfighter Dominance***



# Transit

Alternate Source - New Buy

Robins AFB – 404 SCMS



MDS/TMS: **Multiple**

Noun: **Transit**

NSN: **6675-00-664-4656**

PN: **200518229-2**

Buy Price: **\$1,384.00**

Date of Last Procurement: **4/1/2009**

Repair Price: **N/A**

AAC: **W**

Surplus Available: **Yes via ILSmart (1 each/NS)**

QPA & Appl %: **NA**

Replacement Rate%: **NA**



Built In Compass

## Out Year Requirements (Buy/Repair)

FY20: <b>4</b>	FY21: <b>4</b>	FY22: <b>4</b>	FY23: <b>4</b>	FY24: <b>4</b>
FY20: <b>0</b>	FY21: <b>0</b>	FY22: <b>0</b>	FY23: <b>0</b>	FY24: <b>0</b>

## Details/Issues

- Interested vendors should look on FBO for future solicitations
- Telescopic Mag Diameter: 19 to 24", Max Weight:14.5lbs, Circle Diameter/Horizontal: 5.25 to 6", Circle Diameter/Vertical: 4.5 to 5", Min Shift of Instruments on foot plate: 5/8", Min Diameter of Exit Pupil: 1.4mm

761 (Y)

762 (N)

EDL (Y)

RDL (N)





# Transit

**Alternate Source - New Buy**

**Robins AFB – 404 SCMS**



AMC/AMSC: **1/G**                      RMC/RMSC: **N/A**  
 Material: **Corrosion resistant, castings of virgin metals, smooth and free of blowholes/sandholes w/o plugging**  
 Dimensions: **See Details**  
 Criticality Code: **X**  
 Drawings Avail: **Yes**                      Drawings#: **200518229**  
 T.O. Avail: **No**                              T.O.#: **N/A**  
 Budget Code: **Y**  
 Drawing Cage Code: **98752**  
 Mesh File Avail: **No**                      #  
 Next Higher Assembly: **N/A**

## DMSMS Report

**DMSMS Report Not Available**

**IPB Diagram Not Available**

If you would like to participate in the Technical Discussion on **21 Aug 2019, at 1:00-1:30 p.m. (CST)**, provide the following information NLT **19 Aug 2019**  
[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# *C-5 Super Galaxy*



*Supplying Warfighter Dominance*



# Voltmeter

Reverse Engineering  
Robins AFB – 409 SCMS



MDS/TMS: **C-5**  
 Noun: **Voltmeter**  
 NSN: **6625-01-204-2468**  
 PN: **8AW61LVD220**  
 Buy Price: **\$1,811.57**  
 Date of Last Procurement: **9/5/1986**  
 Repair Price: **\$797.09**  
 AAC: **C**  
 Surplus Available: **Yes via ILSmart (2 each/NS)**  
 QPA & Appl %: **1 @ 100%**  
 Replacement Rate%: **NA**



### Out Year Requirements (Buy/Repair)

FY20: <b>8</b>	FY21: <b>2</b>	FY22: <b>2</b>	FY23: <b>2</b>	FY24: <b>2</b>
FY20: <b>0</b>	FY21: <b>0</b>	FY22: <b>0</b>	FY23: <b>0</b>	FY24: <b>0</b>

### Details/Issues

- **\*Drawing 8AW61LVA1 is commercial equivalent**
- **Complete technical data package is not available**
- **OEM no longer producing**

761 (Y)    762 (N)    EDL (N)    RDL (N)



# Voltmeter

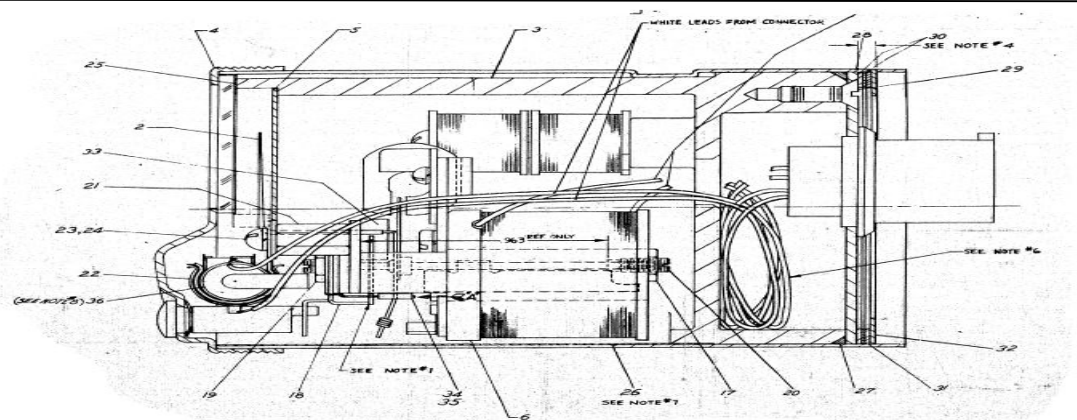
Reverse Engineering  
Robins AFB – 409 SCMS



AMC/AMSC: **3/H**                      RMC/RMSC: **N/A**  
 Material: **NA**  
 Dimensions: **2.656" Total Length, 2.0" Diameter**  
 Criticality Code: **X**  
 Drawings Avail: **Yes (See \*)**      Drawings#: **8AW61LVA1**  
 T.O. Avail: **No**                      T.O.#:  
 Budget Code: **8**  
 Drawing Cage Code: **97424**  
 Mesh File Avail: **No**                      #  
 Next Higher Assembly: **C-5**

## DMSMS Report

**DMSMS Report Not Available**



If you would like to participate in the Technical Discussion on **21 Aug 2019, at 9:00-9:30 a.m. (CST)**, provide the following information NLT **19 Aug 2019**  
[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering



# Base and Strut Assembly



**Alternate Source - New Buy**  
**Robins AFB – 409 SCMS**

MDS/TMS: **C-5 / N/A**  
 Noun: **Ice Detector Base and Strut Assembly**  
 NSN: **6340-01-233-0225**  
 PN: **00871-1090-0001**      PN CAGE: **59885**  
 Buy Price: **\$2,986.00**  
 Date of Last Procurement: **2/1/1997**  
 Repair Price: **N/A**  
 AAC: **J**  
 Surplus Available: **No via ILSmart**  
 QPA & Appl %: **NA**  
 Replacement Rate%: **NA**

**Base and Strut**



Out Year Requirements (Buy/Repair)

FY20: <b>7</b>	FY21: <b>7</b>	FY22: <b>7</b>	FY23: <b>7</b>	FY24: <b>7</b>
FY20: <b>0</b>	FY21: <b>0</b>	FY22: <b>0</b>	FY23: <b>0</b>	FY24: <b>0</b>

## Details/Issues

- Interested vendors should submit a **Source Approval Request (SAR)**
- Part required to support repair of the next higher assembly, Ice Detector which is repaired at Robins
- Drawing is **Government Proprietary**
- T.O. is available and contains technical information
- Condition A assets could be available upon contract award. **DLA stock 1 each**

761 (N)	762 (N)	EDL (N)	RDL (N)
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# Battery Charger Electronics Module



Reverse Engineering  
Robins AFB – 409 SCMS

MDS/TMS: **C-5 / TMS: N/A**  
 Noun: **Battery Charger Electronics Module**  
 NSN: **6130-01-535-7275**  
 PN: **716110-2** PN CAGE: **19623**  
 Buy Price: **\$12,632.67**  
 Date of Last Procurement: **1/29/2016**  
 Repair Price: **\$7,390.00**  
 AAC: **C**  
 Surplus Available: **No via ILSmart**  
 QPA & Appl %: **2 @ 100%**  
 Replacement Rate%: **0%**



### Out Year Requirements (Buy/Repair)

FY20: **0** FY21: **0** FY22: **0** FY23: **0** FY24: **0**  
 FY20: **150** FY21: **150** FY22: **150** FY23: **150** FY24: **150**

### Details/Issues

- **Function: Provides means to charge battery of the Emergency Power System**
- **Complete Engineering Data Package is not available to the Government**
- **Goal is to develop organic repair capability**
- **Potential future requirement for new production units**

761 (Y)      762 (Y)      EDL (N)      RDL (Y)



# Battery Charger Electronics Module



Reverse Engineering

Robins AFB – 409 SCMS

AMC/AMSC: **3 / P**

RMC/RMSC: **5 / R**

Material: **Aluminum**

Dimensions: **9" L X 10" W X 3" H X 6 LBS**

Criticality Code: **X**

Drawings Avail: **No**

Drawings#: **19623**

T.O. Avail: **No**

T.O.#: **1C-5A-4-6**

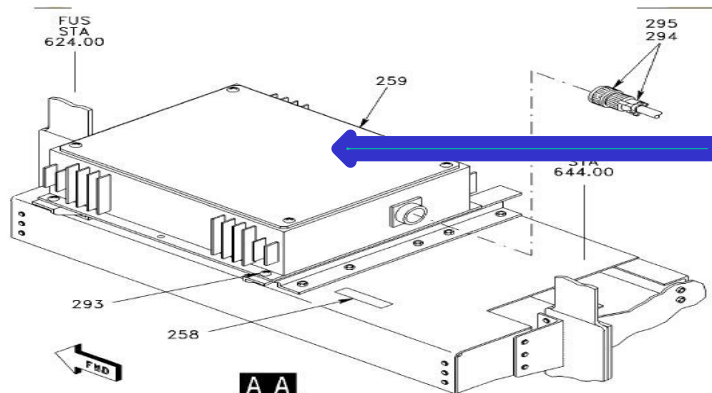
Budget Code: **8**

Drawing Cage Code: **19623**

Mesh File Avail: **No** #

Next Higher Assembly: **C-5M**

## DMSMS Report



**Electronics Module**

If you would like to participate in the Technical Discussion on **18 Sep 2019, at 9:00-9:30 a.m. (CST)**, provide the following information NLT **11 Sep 2019**

[429SCMS.SASPO.Workflow@us.af.mil](mailto:429SCMS.SASPO.Workflow@us.af.mil)

- Company, address, name(s), email(s), phone
- Your questions for engineering