

# F/A-18 A/B/C/D MAINTENANCE TRAINING

**DRAFT**



**MOS 6257 LESSON GUIDES**



# F/A-18 A/B/C/D MAINTENANCE TRAINING

**DRAFT**

A.01 (A thru N)	Special / Support Equipment
A.02 (A thru J)	Safety Precautions and Procedures
A.03 (A thru HH)	Aircraft Publications, Diagrams, Sketches, and Drawings
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A.05 (A)	Fluids and Gases
B.01 (A thru V)	Scheduled / Unscheduled Inspections
B.02 (A thru D)	Technical Directives / Changes / Bulletins
B.03 (A thru D)	Corrosion Control
B.04 (A thru D)	Landing Gear System
B.05 (A thru D)	Wheel Brake System
B.06 (A thru D)	Nose Wheel Steering System
B.07 (A thru D)	Catapult System
B.08 (A thru D)	Arresting Gear System
B.09 (A thru D)	Secondary Power System
B.10 (A thru D)	Hydraulic Systems
B.11 (A thru D)	In-Flight Refueling (IFR) System
B.12 (A thru D)	Aileron System
B.13 (A thru D)	Horizontal Stabilizer System
B.14 (A thru D)	Rudder System
B.15 (A thru D)	Leading Edge Flap System
B.16 (A thru D)	Trailing Edge Flap System
B.17 (A thru D)	Speed Brake System
B.18 (A thru D)	Wing Fold System
B.19 (A thru D)	Gun Hydraulic System
B.20 (A)	Organizational Level Maintenance (Aircraft Hoisting)
B.20 (B)	Organizational Level Maintenance (Avionics Cooling System)
B.20 (C)	Organizational Level Maintenance (Fuselage Forward Section)
B.20 (D)	Organizational Level Maintenance (Fuselage Center Section)
B.20 (E thru F)	Organizational Level Maintenance (Fuselage Aft Section and Leading Edge Extension)
B.20 (G thru H)	Organizational Level Maintenance (Wing Section and Vertical Stabilizer System)
B.20 (I thru O)	Organizational Level Maintenance (Miscellaneous Type Doors and Panels)
B.20 (P thru S)	Organizational Level Maintenance (Miscellaneous Areas)



- A. LECTURE NUMBER:** F/A-18 MOS 6257 A.0 (A thru N)
- B. TIME:** 1.0 Hours
- C. DATE PREPARED:** 31 Mar 04
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Support/Special Equipment
- F. OBJECTIVE:** Student will be able to demonstrate/apply knowledge of the operation and maintenance of applicable work center support/special equipment.
- G. INSTRUCTIONAL AIDES:**
1. F/A 18 Aircraft
  2. HSU-1 Servicing Unit
  3. 20 Ton Hydraulic Jack, 270AS100
  4. 20 Ton Hydraulic Jack, 782D1100
  5. Jacking Beam
  6. Skid Plate
  7. Permaswedge Kit
  8. Dynatube kit
  9. Fuel Sealant injection adaptor kit, 74A46000B
  10. Fuel Sealant cartridge adaptor kit, SEMCO 226358
  11. Fuel Sealant injection gun, Groover Smith 223
  12. Pneumatic sealant gun, SEMCO #250
  13. Arresting hook rigging set, 74D130027-1001
  14. Mechanism and controls rigging pin set, 74D140004-1001
  15. Ring lock kit
- H. REFERENCES:**
1. NA 17-15BF-60, Portable Hydraulic Power Supply
  2. NA 19-600-135-6-1, Preoperational Checklist
  3. NA 01-1A-20, Aviation Hose and Tube Manual
  4. A1-F18AC-SRM-210, Organizational, Intermediate and Depot Maintenance Structural Repair
  5. A1-F18AC-130-300, Organizational Maintenance with IPB
  6. AG-000AC-GSE-000, Organizational and Intermediate Maintenance with IPB Miscellaneous Peculiar Support Equipment F/A-18 A/B/C/D
  7. AG-000AC-GSE-010, Organizational and Intermediate Maintenance with IPB Miscellaneous Peculiar Support Equipment F/A-18 A/B/C/D
  8. AG-000AC-GSE-100, Organizational and Intermediate Maintenance with IPB Miscellaneous Peculiar Support Equipment F/A-18 A/B/C/D

**I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review support/special equipment references.
2. Review care, maintenance, and operating procedures of the Hydraulic Servicing Unit, HSU-1.
3. Review care, maintenance, and operating procedures of the 20-ton Tripod Hydraulic Jack, 270AS100.
4. Review care, maintenance, and operating procedures of the 20-ton Tripod Jack (T20-3FH), 782D1100.
5. Review care, maintenance, and operating procedures of the jacking beam, 78D110002-1001.
6. Review care, maintenance, and operating procedures of the skid plate.
7. Review care, maintenance, and operating procedures of the Permaswedge kit.
8. Review care, maintenance, and operating procedures of the Dynatube kit.
9. Review care, maintenance, and operating procedures of the Fuel Sealant injection adapter kit, 74A460008.
10. Review care, maintenance, and operating procedures of the Fuel Sealant cartridge adapter kit, SEMCO 226358.
11. Review care, maintenance, and operating procedures of the Fuel Sealant injection gun, Groover Smith 223.
12. Review care, maintenance, and operating procedures of the Arresting hook rigging set, 74D130027-1001.
13. Review care, maintenance, and operating procedures of the Mechanism and controls rigging pin set, 74D140004-1001.
14. Review care, maintenance, and operating procedures of the Ring lock kit.

**J. SUMMARY:** During this period of instruction we covered the references, operation, and maintenance of support/special equipment utilized by the work center.

**K. QUESTION AND ANSWERS :**



- A. **LECTURE NUMBER:** F/A-18 MOS 6257 A.02 (A-J)
- B. **TIME:** 1.5 Hours
- C. **DATE PREPARED:** 31 Mar 04
- D. **DATE REVIEWED:** On separate sheet
- E. **TITLE:** Safety Precautions and Procedures in the work center
- F. **OBJECTIVE:** Student will be able to demonstrate knowledge of safety precautions and procedures in the work center.
- G. **INSTRUCTIONAL AIDES:**
- H. **REFERENCES:**



1. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
2. A1-NAOSH-SAF-000/P5100-1,
3. OSHA 29 CFR 1910, Confined Space Entry
4. A1-F18AC-120-100, Organizational Maintenance Theory of Operation Seat, Canopy, Survival Equipment, and Boarding Ladder
5. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
6. A1-F18AC-LMM-020, Organizational Maintenance Line Maintenance Emergency Procedures

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Discuss first aid procedures.
2. Discuss hazardous material/waste.
3. Discuss emergency procedures near electricity.
4. Discuss boarding ladder operation.
5. Discuss personal protective equipment.
6. Discuss safety markings.
7. Discuss types of fire extinguishers.
8. Discuss emergency eyewash procedures.
9. Discuss Hydraulic contamination.
10. Discuss Emergency Reclamation.
11. Discuss canopy, ejection seat, and cockpit switchology.
12. Discuss maintenance line emergency procedures.
13. Discuss general housekeeping.
14. Discuss shop and safety equipment.
15. Discuss composite material safety.

16. Discuss gas free engineering.

**J. SUMMARY:** During this period of instruction we covered safety precautions and procedures in the work center.

**K. QUESTION AND ANSWERS :**





- A. **LECTURE NUMBER:** F/A-18 MOS 6257 A.03 (A thru HH)
- B. **TIME:** 1.5 Hours
- C. **DATE PREPARED:** 31 Mar 31
- D. **DATE REVIEWED:** On separate sheet
- E. **TITLE:** Aircraft Publications, diagrams, sketches, and drawings
- F. **OBJECTIVE:** Student will be able to demonstrate knowledge of aircraft publications, diagrams, sketches, and drawings.
- G. **INSTRUCTIONAL AIDES:** Work center DTPL or squadron CTPL
- H. **REFERENCES:**

1. 100 Series Publications, Principles of Operation Manuals
2. 200 Series Publications, Testing and Troubleshooting Manuals
3. 300 Series Publications, System Maintenance with IPB Manuals
4. 500 Series Publications, System Schematic Manuals
5. A1-F18AC-GAI-000, General Aircraft Information Manual
6. A1-F18AC-SRM-Series Publications, Organizational, Intermediate, and Depot Structural Repair Manuals
7. A1-F18AC-MRC-000, Periodic Maintenance Information Cards
8. A1-F18AC-MRC-100, Turnaround checklist
9. A1-F18AC-MRC-200, Maintenance Requirement Cards  
Daily/Special/Conditional
10. A1-F18AC-MRC-300, Phased Maintenance Requirement Cards
11. A1-F18AC-AML-000, Aircraft Technical Documentation List
12. A1-F18AC-FIM-000, Fault Isolation Manual
13. A1-F18AC-FRM-000, Fault Reporting Manual
14. A1-F18AC-LMM-000, Line Maintenance Manual
15. A1-F18AC-LMM-010, Line Maintenance Access Doors
16. A1-F18AC-LMM-020, Line Maintenance Emergency Procedures
17. A1-F18AC-LMM-030, Line Maintenance Conditional Inspections
18. A1-F18AC-NFM-000, NATOPS Flight Manual
19. A1-F18AC-PCM-000, Plane Captain Manual
20. A1-F18AC-PIM-000, Piping and Installation Manual
21. NA 01-1A-509, Aircraft Corrosion Control
22. NA 01-1A-540, Avionics Corrosion Control
23. A1-F18AC-WP-000, Workaround Procedures
24. A1-F18AX-WUC-800, Work Unit Code Manual
25. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program (NAMP)
26. OSH 29 CFR 1910 Series, Safety Manual
27. NA 00-25-100, Technical Manual Program
28. NA 00-500 Series, Naval Aeronautics Publication List

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29. NA 01-1A-8, Aircraft Structural Hardware for Aircraft Repair
30. 44H1-1A-13, General Use Rosan Fittings/Crissain
31. NA 01-1A-17, Aviation Hydraulics Manual
32. NA 01-1A-503, Aeronautical Antifriction Bearings
33. NA 01-1A-509, Aircraft Weapons System Cleaning and Corrosion Control
34. NA 01-1A-12, Fabrication, Maintenance, and Repair of Transparent Plastics
35. NA 01-1A-22, Aircraft Radomes and Antenna Covers

**I. PRESENTATION:** Review with the student following publications as the pertain to the work center:

1. 100 Series Publications
2. 200 Series Publications
3. 300 Series Publications
4. 500 Series Publications
5. A1-F18AC-GAI-000
6. A1-F18AC-SRM-Series Publications
7. A1-F18AC-MRC-000
8. A1-F18AC-MRC-100
9. A1-F18AC-MRC-200
10. A1-F18AC-MRC-300
11. A1-F18AC-AML-000
12. A1-F18AC-FIM-000
13. A1-F18AC-FRM-000
14. A1-F18AC-LMM-000
15. A1-F18AC-LMM-010
16. A1-F18AC-LMM-020
17. A1-F18AC-LMM-030
18. A1-F18AC-NFM-000
19. A1-F18AC-PCM-000
20. A1-F18AC-PIM-000
21. NA 01-1A-509
22. NA 01-1A-540
23. A1-F18AC-WP-000
24. A1-F18AX-WUC-800
25. OPNAVINST 4790.2\_
26. OSH 29 CFR 1910 Series
27. NA 00-25-100
28. NA 00-500 Series
29. NA 01-1A-8
30. 44H1-1A-13
31. NA 01-1A-17
32. NA 01-1A-503
33. NA 01-1A-509
34. NA 01-1A-12
35. NA 01-1A-22

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J. **SUMMARY:** During this period of instruction we discussed applicable aircraft publications, diagrams, sketches, and drawing for the work center.

K. **QUESTION AND ANSWERS :**



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- A. LECTURE NUMBER:** F/A-18 MOS 6257 A.04 (A thru J)
- B. TIME:** 1.5 Hours
- C. DATE PREPARED:** 31 Mar 04
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Precision Measuring Equipment
- F. OBJECTIVE:** Student will be able to demonstrate knowledge and operation of applicable precision measuring equipment.

**G. INSTRUCTIONAL AIDES:**

1. Inch-pound torque wrench
2. Foot-pound torque wrench
3. Balance Scale
4. Resiliency tester
5. Push-pull gauge
6. Thermometer
7. Dial indicator tensiometer
8. Multimeter/Fluke 77/AN
9. Micrometer set

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**H. REFERENCES:**

1. A1-F18AC-SRM-XXX, Organizational, Intermediate, and Depot Maintenance Structural Repair Manuals
2. Applicable operator's manuals

**I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review operation of the inch-pound torque wrench.
2. Review operation of the foot-pound torque wrench.
3. Review operation of the balance scale, trip 0.10-gram graduation.
4. Review operation of the balance scale, trip 0.1 to 0.50-gram graduation.
5. Review operation of the resiliency tester, DDPH-250.
6. Review operation of the push-pull gauge, DDPH-50.
7. Review operation of the thermometer.
8. Review operation of the dial indicator tensiometer.
9. Review operation of the multimeter/Fluke 77/AN.
10. Review operation of the micrometer set.

J. **SUMMARY:** During this period of instruction we covered applicable precision measuring equipment.

K. **QUESTION AND ANSWERS :**

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- A. **LECTURE NUMBER:** F/A-18 MOS 6257 A.05 (A)
- B. **TIME:** 0.5 Hours
- C. **DATE PREPARED:** 31 Mar 04
- D. **DATE REVIEWED:** On separate sheet
- E. **TITLE:** Fluids and Gases
- F. **OBJECTIVE:** Student will be able to demonstrate/apply knowledge of fluids and gases and the principles of their use, as applicable to aircraft hydraulic/pneumatic systems.
- G. **INSTRUCTIONAL AIDES:**
- H. **REFERENCES:**
1. NA 01-1A-17, Aviation Hydraulics Manual
- I. **PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review fluids and gases and the principles of their use, as applicable to the aircraft hydraulic/ pneumatic systems.
- J. **SUMMARY:** During this period of instruction we covered fluids and gases and the principles of their use, as applicable to the aircraft hydraulic/ pneumatic systems.
- K. **QUESTION AND ANSWERS:**





- A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.01 (A thru V)
- B. **TIME:** 2.5 Hours
- C. **DATE PREPARED:** 31 Mar 03
- D. **DATE REVIEWED:** On separate sheet
- E. **TITLE:** Scheduled/Unscheduled Inspections
- F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Periodic Maintenance, Turnaround Checklist, Daily, Special, Preservation and Conditional Requirements. Student will also show knowledge of Phase Maintenance Requirements.
- G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. **REFERENCES:**
- I. **PRESENTATION:**

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1. A1-F18AC-MRC-000, Periodic Maintenance Information Cards
2. A1-F18AC-MRC-100, Turnaround Checklist
3. A1-F18AC-MRC-200, Daily Maintenance Requirement Cards
4. A1-F18AC-MRC-300, Phased Maintenance Requirement Cards
5. A1-F18AC-LMM-030, Organizational Maintenance Conditional Inspection Procedures
6. A1-F18AX-WUC-800, Work Unit Code
7. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
8. NAVAIR 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Control Manual

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review electrical and hydraulic application, as well as jacking and servicing procedures. REF: A1-F18AC-LMM-000
2. Review Periodic Maintenance Procedures REF: A1-F18AC-MRC-000
3. Review Turnaround Checklist Requirements. REF: A1-F18AC-MRC-100
4. Review Daily, Special, and Preservation Inspection Requirements. REF: A1-F18AC-MRC-200
5. Review Conditional Inspection Procedures. REF: A1-F18AC-LMM-030
6. Discuss Phase Maintenance Requirements. REF: A1-F18AC-MRC-300.
7. Discuss corrosion detection. REF: NAVAIR 01-1A-509

J. **SUMMARY:** During this period of instruction we covered Periodic Maintenance, Turnaround and Daily Requirements, Special, Preservation and Conditional Maintenance Requirements and we also discussed Phase Inspections.

K. **QUESTION AND ANSWERS :**

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- A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.02 (A thru D)
- B. **TIME:** 1 Hour
- C. **DATE PREPARED:** 31 Aug 03
- D. **DATE REVIEWED:** On separate sheet
- E. **TITLE:** Technical Directives
- F. **OBJECTIVE:** Student will be able to demonstrate knowledge of Technical Directive Changes and Bulletins.
- G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. **REFERENCES:**
1. NAVAIRINST 5215-8, NAVAIRSYSCOM Technical Directive System
  2. NAVAIRINST 5215-10, Processing of RAMECs
  3. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
- I. **PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review Technical Directive system.
  2. Discuss Rapid Action Minor Engineering Change proposals.
  3. Discuss incorporating Airframes Changes.
  4. Discuss incorporating Airframes Bulletins.
- J. **SUMMARY:** During this period of instruction we covered the Technical Directive System, how to generate RAMEC proposals, and how to incorporate Airframes Changes and Bulletins.
- K. **QUESTION AND ANSWERS:**

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- A. LECTURE NUMBER:** F/A-18 MOS 6257 B.03 (A thru D)
- B. TIME:** 1.0 Hour
- C. DATE PREPARED:** 31 Aug 03
- D. DATE REVIEWED:** On separate sheet
- E. TITLE:** Corrosion Control
- F. OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Detection, identification, and classification of corrosion control. Student will also be able to treat corrosion safely in accordance with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to the task.
- G. INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. REFERENCES:**
1. NA 01-1A-509, Corrosion Control Manual
  2. NA 01-16-540, Avionics Cleaning and Corrosion Control
  3. A1-F18AC-SRM-500, Structural Repair Manual
- I. PRESENTATION:**
- NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.
1. Review corrosion detection, severity, classification, and identification of corrosion prone areas. REF: NA 01-1A-509
  2. Review proper 3M documentation. REF: OPNAVINST 4790.2\_
- J. SUMMARY:** During this period of instruction we covered corrosion detection, identification, and classification. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to a task.
- K. QUESTION AND ANSWER**

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A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.4 (A thru D)

B. **TIME:** 3.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

E. **TITLE:** Landing Gear System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Landing gear system theory of operation, functional check, fault isolation, and removal and replacement of landing gear system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-130-100, Organizational Maintenance Principles of Operation Landing Gear and Related Systems
2. A1-F18AC-130-200, Organizational Maintenance Testing and Troubleshooting Landing Gear and Related Systems
3. A1-F18AC-130-300, Organizational Maintenance with IPB Landing Gear and Related Systems
4. A1-F18AC-130-310, Organizational Maintenance with IPB Landing Gear and Related Systems
5. A1-F18AC-130-320, Organizational Maintenance with IPB Landing Gear and Related Systems
6. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
7. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
8. A1-F18AX-WUC-800, Work Unit Code Manual
9. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review landing gear system theory of operation. REF: A1-F18-AC-130-100
2. Review landing gear system functional check procedures. REF: A1-F18AC-130-200
3. Review landing gear system testing, troubleshooting, and fault isolation procedures and tables. REF: A1-F18AC-130-200

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4. Review main and nose landing gear system components removal and replacement. REFs: A1-F18AC-130-300, 310, and 320
5. Review electrical and hydraulic application, as well as, jacking and servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered landing gear system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

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A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.05 (A thru D)

B. **TIME:** 2.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

E. **TITLE:** Wheel Brake System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Wheel brake system theory of operation, perform a functional test, fault isolation, removal and replacement of wheel brake system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-130-100, Organizational Maintenance Principles of Operation Landing Gear and Related Systems
2. A1-F18AC-130-200, Organizational Maintenance Testing and Troubleshooting Landing Gear and Related Systems
3. A1-F18AC-130-300, Organizational Maintenance with IPB Landing Gear and Related Systems
4. A1-F18AC-130-310, Organizational Maintenance with IPB Landing Gear and Related Systems
5. A1-F18AC-130-320, Organizational Maintenance with IPB Landing Gear and Related Systems
6. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
7. A1-F18AX-WUC-800, Work Unit Code Manual
8. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
9. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review wheel brake system theory of operation. REF: A1-F18-AC-130-100
2. Review wheel brake system functional check procedures. REF: A1-F18AC-130-200
3. Review wheel brake system testing, troubleshooting, and fault isolation procedures and tables. REF: A1-F18AC-130-200

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4. Review wheel brake system components removal and replacement. REF: A1-F18AC-130-300, 310, and 320
5. Review electrical and hydraulic application, as well as, jacking and servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: NA OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered wheel brake system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

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# F/A-18 A/B/C/D MAINTENANCE TRAINING

LESSON GUIDE NUMBER: F/A-18 MOS 6257 B.06 (A thru D)

## NOSE WHEEL STEERING SYSTEM

YR/MO/DAY

NAME/RANK

DATE REVIEWED

REVIEWED BY

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A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.06 (A thru D)

B. **TIME:** 2.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

E. **TITLE:** Nose Wheel Steering System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Nose wheel steering system theory of operation, perform a functional test, fault isolation, removal and replacement of wheel brake system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AX-570-100, Organizational Maintenance Principles of Operation Integrated Flight Control Systems
2. A1-F18AX-570-200, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
3. A1-F18AX-570-300, Organizational Maintenance with IPB Integrated Flight Control Systems
4. A1-F18AX-570-310, Organizational Maintenance with IPB Integrated Flight Control Systems
5. A1-F18AX-570-320, Organizational Maintenance with IPB Integrated Flight Control Systems
6. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
7. A1-F18AX-WUC-800, Work Unit Code Manual
8. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
9. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review nose wheel steering system theory of operation. REF: A1-F18AX-570-100
2. Review nose wheel steering system functional check procedures. REF: A1-F18AX-570-200
3. Review nose wheel steering system testing, troubleshooting, and fault isolation procedures and tables. REF: A1-F18AX-570-200

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4. Review nose wheel steering system components removal and replacement. REF: A1-F18AX-570-300, 310, and 320
5. Review electrical and hydraulic application, as well as jacking and servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered nose wheel steering system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.07 (A thru D)

B. **TIME:** 1.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

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E. **TITLE:** Catapult System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Catapult system theory of operation, perform a functional test, fault isolation, removal and replacement of catapult system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-130-100, Organizational Maintenance Principles of Operation Landing Gear and Related Systems
2. A1-F18AC-130-200, Organizational Maintenance Testing and Troubleshooting Landing Gear and Related Systems
3. A1-F18AC-130-300, Organizational Maintenance with IPB Landing Gear and Related Systems
4. A1-F18AC-130-310, Organizational Maintenance with IPB Landing Gear and Related Systems
5. A1-F18AC-130-320, Organizational Maintenance with IPB Landing Gear and Related Systems
6. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
7. A1-F18AX-WUC-800, Work Unit Code Manual
8. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
9. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review catapult system theory of operation. REF: A1-F18AC-130-100
2. Review catapult system functional check procedures. REF: A1-F18AC-130-200

3. Review catapult system testing, troubleshooting, and fault isolation procedures and tables. REF: A1-F18AC-130-200
4. Review catapult system components removal and replacement. REF: A1-F18AC-130-300, 310, and 320
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered catapult system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.08 (A thru D)

B. **TIME:** 1.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate

E. **TITLE:** Arresting Gear System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Arresting gear system theory of operation, perform a functional test, fault isolation, removal and replacement of arresting gear system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-130-100, Organizational Maintenance Principles of Operation Landing Gear and Related Systems
2. A1-F18AC-130-200, Organizational Maintenance Testing and Troubleshooting Landing Gear and Related Systems
3. A1-F18AC-130-300, Organizational Maintenance with IPB Landing Gear and Related Systems
4. A1-F18AC-130-310, Organizational Maintenance with IPB Landing Gear and Related Systems
5. A1-F18AC-130-320, Organizational Maintenance with IPB Landing Gear and Related Systems
6. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
7. A1-F18AX-WUC-800, Work Unit Code Manual
8. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
9. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review arresting gear system theory of operation. REF: A1-F18AC-130-100
2. Review arresting gear system functional check procedures. REF: A1-F18AC-130-200
3. Review arresting gear system testing, troubleshooting, and fault isolation procedures and tables. REF: A1-F18AC-130-200

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4. Review arresting gear system components removal and replacement. REF: A1-F18AC-130-300, 310, and 320
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered arresting gear system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.09 (A thru D)

B. **TIME:** 1.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Secondary Power System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Secondary power system theory of operation, perform a functional test, fault isolation, removal and replacement of secondary power system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-240-100, Organizational Maintenance Principles of Operation Secondary Power Systems
2. A1-F18AC-240-200, Organizational Maintenance Testing and Troubleshooting Secondary Power Systems
3. A1-F18AC-240-300, Organizational Maintenance with IPB Secondary Systems
4. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
5. A1-F18AX-WUC-800, Work Unit Code Manual
6. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
7. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review secondary power system theory of operation. REF: A1-F18AC-240-100
2. Review secondary power system functional check procedures. REF: A1-F18AC-240-200
3. Review secondary power system testing, troubleshooting, and fault isolation procedures and tables. REF: A1-F18AC-240-200
4. Review secondary power system components removal and replacement. REF: A1-F18AC-240-300, 310, and 320
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000

6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered secondary power system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.10 (A thru D)

B. **TIME:** 2.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

E. **TITLE:** Hydraulic System

**DRAFT**

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Hydraulic system theory of operation, perform a functional test, fault isolation, removal and replacement of hydraulic system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-450-100, Organizational Maintenance Principles of Operation Hydraulic Systems
2. A1-F18AC-450-200, Organizational Maintenance Testing and Troubleshooting Hydraulic Systems
3. A1-F18AC-450-300, Organizational Maintenance with IPB Hydraulic Systems
4. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
5. A1-F18AX-WUC-800, Work Unit Code Manual
6. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
7. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review hydraulic system theory of operation. REF: A1-F18AC-450-100
2. Review hydraulic system functional check procedures. REF: A1-F18AC-450-200
3. Review hydraulic system testing, troubleshooting, and fault isolation procedures and tables. REF: A1-F18AC-450-200
4. Review hydraulic system components removal and replacement. REF: A1-F18AC-450-300
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000

6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered hydraulic system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



- A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.11 (A thru D)
- B. **TIME:** 1.0 Hours
- C. **DATE PREPARED:** 31 Aug 03
- D. **DATE REVIEWED:** On separate sheet
- E. **TITLE:** In-Flight Refueling (IFR) System
- F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: In-Flight Refueling (IFR) system theory of operation, perform a functional test, fault isolation, removal and replacement of in-flight refueling system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.
- G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft
- H. **REFERENCES:**
1. A1-F18AX-460-100, Organizational Maintenance Principles of Operation Fuel Systems
  2. A1-F18AX-460-200, Organizational Maintenance Testing and Troubleshooting Fuel Systems
  3. A1-F18AX-460-210, Organizational Maintenance Testing and Troubleshooting Fuel Systems
  4. A1-F18AX-460-300, Organizational Maintenance with IPB Fuel Systems
  5. A1-F18AX-460-310, Organizational Maintenance with IPB Fuel Systems
  6. A1-F18AX-460-320, Organizational Maintenance with IPB Fuel Systems
  7. A1-F18AX-460-330, Organizational Maintenance with IPB Fuel Systems
  8. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
  9. A1-F18AX-WUC-800, Work Unit Code Manual
  10. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
  11. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

**DRAFT**

**I. PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout the presentation.

1. Review in-flight refueling system theory of operation. REF: A1-F18AX-460-100
2. Review in-flight refueling system functional check procedures. REFS: A1-F18AX-460-200 and 210
3. Review in-flight refueling system testing, troubleshooting, and fault isolation procedures and tables. REFS: A1-F18AX-460-200 and 210
4. Review in-flight refueling system components removal and replacement. REF: A1-F18AX-460-300, 310, 320, and 330
5. Review electrical and hydraulic application, as well as refueling procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered In-Flight Refueling (IFR) system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.12 (A thru D)

B. **TIME:** 1.5 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

E. **TITLE:** Aileron System



F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Aileron system theory of operation, perform a functional test, fault isolation, removal and replacement of aileron system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-570-100, Organizational Maintenance Principles of Operation Integrated Flight Control Systems
2. A1-F18AC-570-200, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
3. A1-F18AC-570-210, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
4. A1-F18AC-570-220, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
5. A1-F18AC-570-300, Organizational Maintenance with IPB Integrated Flight Control Systems
6. A1-F18AC-570-310, Organizational Maintenance with IPB Integrated Flight Control Systems
7. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
8. A1-F18AX-WUC-800, Work Unit Code Manual
9. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
10. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Review aileron system theory of operation. REF: A1-F18AC-570-100
2. Review aileron system functional check procedures. REFs: A1-F18Ac-460-200, 210, and 220

3. Review aileron system testing, troubleshooting, and fault isolation procedures and tables. REFs: A1-F18AC-570-210, 220, and 230
4. Review aileron system components removal and replacement. REF: A1-F18AC-570-300, and 310
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered aileron system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.13 (A thru D)

B. **TIME:** 1.5 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Horizontal Stabilizer System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Horizontal Stabilizer system theory of operation, perform a functional test, fault isolation, removal and replacement of horizontal stabilizer system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-570-100, Organizational Maintenance Principles of Operation Integrated Flight Control Systems
2. A1-F18AC-570-200, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
3. A1-F18AC-570-210, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
4. A1-F18AC-570-220, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
5. A1-F18AC-570-300, Organizational Maintenance with IPB Integrated Flight Control Systems
6. A1-F18AC-570-310, Organizational Maintenance with IPB Integrated Flight Control Systems
7. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
8. A1-F18AX-WUC-800, Work Unit Code Manual
9. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
10. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Review horizontal stabilizer system theory of operation. REF: A1-F18AC-570-100
2. Review horizontal stabilizer system functional check procedures. REFs: A1-F18AC-570-200, 210, and 220

3. Review horizontal stabilizer system testing, troubleshooting, and fault isolation procedures and tables. REFs: A1-F18AC-570-210, 220, and 230
4. Review horizontal stabilizer system components removal and replacement. REF: A1-F18AC-570-300, and 310
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered Horizontal stabilizer system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.14 (A thru D)

B. **TIME:** 1.5 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Rudder System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Rudder system theory of operation, perform a functional test, fault isolation, removal and replacement of rudder system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-570-100, Organizational Maintenance Principles of Operation Integrated Flight Control Systems
2. A1-F18AC-570-200, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
3. A1-F18AC-570-210, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
4. A1-F18AC-570-220, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
5. A1-F18AC-570-300, Organizational Maintenance with IPB Integrated Flight Control Systems
6. A1-F18AC-570-310, Organizational Maintenance with IPB Integrated Flight Control Systems
7. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
8. A1-F18AX-WUC-800, Work Unit Code Manual
9. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
10. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Review rudder system theory of operation. REF: A1-F18AC-570-100
2. Review rudder system functional check procedures. REFS: A1-F18AC-570-200, 210, and 220

3. Review rudder system testing, troubleshooting, and fault isolation procedures and tables. REFs: A1-F18AC-570-200, 210, and 220
4. Review rudder system components removal and replacement. REF: A1-F18AC-570-300, and 310
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered rudder system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.15 (A thru D)

B. **TIME:** 1.5 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Leading Edge Flap System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Leading edge flap system theory of operation, perform a functional test, fault isolation, removal and replacement of leading edge flap system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-570-100, Organizational Maintenance Principles of Operation Integrated Flight Control Systems
2. A1-F18AC-570-200, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
3. A1-F18AC-570-210, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
4. A1-F18AC-570-220, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
5. A1-F18AC-570-300, Organizational Maintenance with IPB Integrated Flight Control Systems
6. A1-F18AC-570-310, Organizational Maintenance with IPB Integrated Flight Control Systems
7. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
8. A1-F18AX-WUC-800, Work Unit Code Manual
9. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
10. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Review leading edge flap system theory of operation. REF: A1-F18AC-570-100
2. Review leading edge flap system functional check procedures. REFs: A1-F18AC-570-200, 210, and 220

3. Review leading edge flap system testing, troubleshooting, and fault isolation procedures and tables. REFs: A1-F18AC-570-200, 210, and 220
4. Review leading edge flap system components removal and replacement. REF: A1-F18AC-570-300 and 310
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered leading edge flap system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.16 (A thru D)

B. **TIME:** 1.5 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Trailing Edge Flap System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Trailing edge flap system theory of operation, perform a functional test, fault isolation, removal and replacement of trailing edge flap system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-570-100, Organizational Maintenance Principles of Operation Integrated Flight Control Systems
2. A1-F18AC-570-200, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
3. A1-F18AC-570-210, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
4. A1-F18AC-570-220, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
5. A1-F18AC-570-300, Organizational Maintenance with IPB Integrated Flight Control Systems
6. A1-F18AC-570-310, Organizational Maintenance with IPB Integrated Flight Control Systems
7. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
8. A1-F18AX-WUC-800, Work Unit Code Manual
9. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
10. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Review trailing edge flap system theory of operation. REF: A1-F18AC-570-100
2. Review trailing edge flap system functional check procedures. REFS: A1-F18AC-570-200, 210, and 220

3. Review trailing edge flap system testing, troubleshooting, and fault isolation procedures and tables. REFs: A1-F18AC-570-200, 210, and 220
4. Review trailing edge flap system components removal and replacement. REF: A1-F18AC-570-300, and 310
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered trailing edge flap system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.17 (A thru D)

B. **TIME:** 1.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Speed Brake System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Speed brake system theory of operation, perform a functional test, fault isolation, removal and replacement of speed brake system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-570-100, Organizational Maintenance Principles of Operation Integrated Flight Control Systems
2. A1-F18AC-570-200, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
3. A1-F18AC-570-210, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
4. A1-F18AC-570-220, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
5. A1-F18AC-570-300, Organizational Maintenance with IPB Integrated Flight Control Systems
6. A1-F18AC-570-310, Organizational Maintenance with IPB Integrated Flight Control Systems
7. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
8. A1-F18AX-WUC-800, Work Unit Code Manual
9. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
10. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Review speed brake system theory of operation. REF: A1-F18AC-570-100
2. Review speed brake system functional check procedures. REFS: A1-F18AC-570-200, 210, and 220

3. Review speed brake system testing, troubleshooting, and fault isolation procedures and tables. REFs: A1-F18AC-570-200, 210, and 220
4. Review speed brake system components removal and replacement. REF: A1-F18AC-570-300, and 310
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered speed brake system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.18 (A thru D)

B. **TIME:** 1.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Wing Fold System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Wing fold system theory of operation, perform a functional test, fault isolation, removal and replacement of wing fold system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-570-100, Organizational Maintenance Principles of Operation Integrated Flight Control Systems
2. A1-F18AC-570-200, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
3. A1-F18AC-570-210, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
4. A1-F18AC-570-220, Organizational Maintenance Testing and Troubleshooting Integrated Flight Control Systems
5. A1-F18AC-570-300, Organizational Maintenance with IPB Integrated Flight Control Systems
6. A1-F18AC-570-310, Organizational Maintenance with IPB Integrated Flight Control Systems
7. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
8. A1-F18AX-WUC-800, Work Unit Code Manual
9. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
10. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Review wing fold system theory of operation. REF: A1-F18AC-570-100
2. Review wing fold system functional check procedures. REFS: A1-F18AC-570-200, 210, and 220

3. Review wing fold system testing, troubleshooting, and fault isolation procedures and tables. REFs: A1-F18AC-570-200, 210, and 220
4. Review wing fold system components removal and replacement. REF: A1-F18AC-570-300, and 310
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000
6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered wing fold system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.19 (A thru D)

B. **TIME:** 1.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

E. **TITLE:** Gun Hydraulic System

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following: Gun hydraulic system theory of operation, perform a functional test, fault isolation, removal and replacement of gun hydraulic system components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-750-100, Organizational Maintenance Principles of Operation Gun System
2. A1-F18AC-750-200, Organizational Maintenance Testing and Troubleshooting Gun System
3. A1-F18AC-750-300, Organizational Maintenance with IPB Gun System
4. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
5. A1-F18AX-WUC-800, Work Unit Code Manual
6. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
7. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Review gun hydraulic system theory of operation. REF: A1-F18AC-750-100
2. Review gun hydraulic system functional check procedures. REF: A1-F18AC-750-200
3. Review gun hydraulic system testing, troubleshooting, and fault isolation procedures and tables. REF: A1-F18AC-750-200
4. Review gun hydraulic system components removal and replacement. REF: A1-F18AC-750-300
5. Review electrical and hydraulic application, as well as servicing procedures. REF: A1-F18AC-LMM-000

**DRAFT**

6. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
7. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
8. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
9. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered gun hydraulic system theory of operation, functional check, fault isolation, and removal and replacement procedures. We also discussed proper 3M documentation, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.20 (A)

B. **TIME:** 1.5 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

E. **TITLE:** Organizational Level Maintenance (Aircraft Hoisting)

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following organizational maintenance action: Aircraft hoisting. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-SRM-200, Organizational, Intermediate, and Depot Maintenance Structure Repair General Information
2. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
3. A1-F18AX-WUC-800, Work Unit Code Manual
4. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
5. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Review aircraft hoisting procedures. REF: A1-F18AC-SRM-200
2. Review aircraft emergency hoisting procedures. REF: A1-F18AC-SRM-200
3. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
4. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
5. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
6. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**DRAFT**

J. **SUMMARY:** During this period of instruction we covered normal aircraft hoisting and emergency aircraft hoisting procedures.

K. **QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.20 (B)

B. **TIME:** 1.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

E. **TITLE:** Organizational Level Maintenance (Avionics Cooling System)

**DRAFT**

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the following organizational maintenance action: Emergency RAM Air Scoop linkage hinge and hardware removal, replacement, adjustment, and alignment. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-410-300, Organizational, Intermediate, and Depot Maintenance Structure Repair General Information
3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
4. A1-F18AX-WUC-800, Work Unit Code Manual
5. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Review removal and replacement procedures for emergency RAM air scoop, linkage, hinge, and hardware. REF: A1-F18AC-410-300
2. Review adjustment and alignment procedures for emergency RAM air scoop, linkage, hinge, and hardware. REF: A1-F18AC-410-300
3. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
4. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
5. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
6. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

J. **SUMMARY:** During this period of instruction we covered Emergency RAM Air Scoop linkage hinge and hardware removal, replacement, adjustment, and alignment procedures.

K. **QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.20 (C)

B. **TIME:** 2.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

E. **TITLE:** Organizational Level Maintenance (Fuselage Forward Section)

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the Fuselage forward section including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-SRM-220, Organizational, Intermediate, and Depot Maintenance Structure Repair General Information
2. A1-F18AC-120-300, Organizational Maintenance with IPB
3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
4. A1-F18AX-WUC-800, Work Unit Code Manual
5. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
3. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Discuss removal and replacement of fasteners on the forward fuselage. REF: A1-F18AC-SRM-220
2. Discuss repairs to the forward fuselage to include: blending nicks, scratches, finish damage, and refinishes. REF: A1-F18AC-SRM-220
3. Discuss repairs to the forward fuselage to include: damaged skin and structure. REF: A1-F18AC-SRM-220
4. Discuss removal and replacement of radome rain erosion boot. REF: A1-F18AC-SRM-220
5. Discuss removal and replacement of radome. REF: A1-F18AC-SRM-220

**DRAFT**

6. Discuss removal and replacement of radome seal. REF: A1-F18AC-SRM-220
7. Discuss removal and replacement of radome nose cap. REF: A1-F18AC-SRM-220
8. Discuss removal and replacement of radome brace. REF: A1-F18AC-SRM-220
9. Discuss removal and replacement of radome hinge. REF: A1-F18AC-SRM-220
10. Discuss removal and replacement of radome latches. REF: A1-F18AC-SRM-220
11. Discuss rigging of radome latches. REF: A1-F18AC-SRM-220
12. Discuss repair procedures for the radome. REF: A1-F18AC-SRM-220
13. Discuss removal and replacement of windshield and glare shield hinge assembly. REF: A1-F18AC-120-300
14. Discuss removal and replacement of windshield seal. REF: A1-F18AC-120-300
15. Discuss repairs to the windshield. REF: A1-F18AC-SRM-220
16. Discuss removal and replacement of EMI seal. REF: A1-F18AC-SRM-220
17. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
18. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
19. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
20. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered fuselage forward section including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.20 (D)

B. **TIME:** 2.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Organizational Level Maintenance (Fuselage Center Section)

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the fuselage center section including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-SRM-230, Organizational, Intermediate, and Depot Maintenance Structure Repair General Information
3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
4. A1-F18AX-WUC-800, Work Unit Code Manual
5. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Discuss removal and replacement of fasteners on the forward fuselage. REF: A1-F18AC-SRM-230
2. Discuss repairs to the fuselage center section to include: crushed skin and structure. REF: A1-F18AC-SRM-230
3. Discuss repairs to the fuselage center section to include: nicks or scratches to composite skins. REF: A1-F18AC-SRM-230
4. Discuss repairs to the fuselage center section to include: nicks or scratches to metal parts. REF: A1-F18AC-SRM-230
5. Discuss repairs to the fuselage center section to include: cracked metal skins. REF: A1-F18AC-SRM-230
6. Discuss repairs to the fuselage center section to include: punctured metal skins. REF: A1-F18AC-SRM-230

7. Discuss repairs to the fuselage center section to include: metal skin to core unbond. REF: A1-F18AC-SRM-230
8. Discuss repairs to the fuselage center section to include: punctured composite doors. REF: A1-F18AC-SRM-230
9. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
10. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
11. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
12. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered fuselage center section including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.20 (E thru F)

B. **TIME:** 2.5 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Organizational Level Maintenance (Fuselage Aft Section and Leading Edge Extension)

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the fuselage aft section and leading edge extension areas including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-SRM-220, Organizational, Intermediate, and Depot Maintenance Structure Repair General Information
2. A1-F18AC-SRM-240, Organizational, Intermediate, and Depot Maintenance Structure Repair General Information
3. A1-F18AC-120-300, Organizational Maintenance with IPB
3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
4. A1-F18AX-WUC-800, Work Unit Code Manual
5. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Discuss removal and replacement of fasteners on the fuselage aft section. REF: A1-F18AC-SRM-240
2. Discuss repairs to the fuselage aft section to include: crushed skin and structure. REF: A1-F18AC-SRM-240
3. Discuss removal and replacement of fasteners on the leading edge extension. REF: A1-F18AC-SRM-220
4. Discuss repairs to the leading edge extension to include: surface damage and applying surface finish. REF: A1-F18AC-SRM-220

5. Discuss repairs to the leading edge extension to include: cracked metal skin. REF: A1-F18AC-SRM-220
6. Discuss repairs to the leading edge extension to include: punctured metal skin. REF: A1-F18AC-SRM-220
7. Discuss removal, replacement, and rigging of the boarding ladder and associated components. REF: A1-F18AC-120-300
8. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
9. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
10. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
11. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered fuselage aft section and leading edge extension areas including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.20 (G thru H)

B. **TIME:** 2.5 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Organizational Level Maintenance (Wing Section and Vertical Stabilizer System)

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of the wing section and vertical stabilizer areas including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-SRM-210, Organizational, Intermediate, and Depot Maintenance Structure Repair General Information
2. A1-F18AC-SRM-240, Organizational, Intermediate, and Depot Maintenance Structure Repair General Information
3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
4. A1-F18AX-WUC-800, Work Unit Code Manual
5. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Discuss removal and replacement of fasteners on the wing section. REF: A1-F18AC-SRM-210
2. Discuss removal and replacement of outer wing panel. REF: A1-F18AC-SRM-210
3. Discuss removal and replacement of outer wing assembly. REF: A1-F18AC-SRM-210
4. Discuss removal and replacement bushings. REF: A1-F18AC-SRM-210
5. Discuss removal and replacement of aileron seals. REF: A1-F18AC-SRM-210

6. Discuss repairs to the wing section to include: surface scratches, nicks, and damaged finish. REF: A1-F18AC-SRM-210
7. Discuss repairs to the wing section to include: loose fiber on monolithic graphite epoxy skin. REF: A1-F18AC-SRM-210
8. Discuss repairs to the wing section to include: outer wing dam seal. REF: A1-F18AC-SRM-210
9. Discuss repairs to the wing section to include: defective floating insert/helicoil. REF: A1-F18AC-SRM-210
10. Discuss wing sealing procedures. REF: A1-F18AC-SRM-210
11. Discuss removal and replacement of fasteners on the vertical stabilizer system. REF: A1-F18AC-SRM-240
12. Discuss removal and replacement of the vertical stabilizer tip. REF: A1-F18AC-SRM-240
13. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
14. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
15. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
16. Discuss corrosion detection and prevention procedures. REF: NA 01-1A-509

**J. SUMMARY:** During this period of instruction we covered wing section and vertical stabilizer system areas including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.20 (I thru O)

B. **TIME:** 2.0 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Organizational Level Maintenance  
(Miscellaneous Type Doors and Panels)

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of miscellaneous type doors and panels including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-SRM-200, Organizational, Intermediate, and Depot Maintenance Structure Repair General Information
2. A1-F18AC-SRM-210, Organizational, Intermediate, and Depot Maintenance Structure Repair General Information
3. A1-F18AC-SRM-240, Organizational, Intermediate, and Depot Maintenance Structure Repair General Information
3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
4. A1-F18AX-WUC-800, Work Unit Code Manual
5. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Discuss removal and replacement of fasteners/anchor nuts and repair to fiberglass and Aramid laminate access covers. REF: A1-F18AC-SRM-220
2. Discuss removal and replacement of fasteners/anchor nuts and repair to titanium/steel access covers. REF: A1-F18AC-SRM-220
3. Discuss removal and replacement of fasteners/anchor nuts and repair to graphite epoxy, honeycomb sandwich and aluminum honeycomb access covers. REF: A1-F18AC-SRM-200

4. Discuss removal and replacement of FIP seal. REF: A1-F18AC-SRM-200
5. Discuss removal and replacement of rotary latches, hinges, and repair to carbon/epoxy honeycomb sandwich access doors. REF: A1-F18AC-SRM-200
6. Discuss removal and replacement of door hold open struts/brackets, turkey feather segments, and turkey feather retaining strap on aluminum access doors. REF: A1-F18AC-SRM-200
7. Discuss removal and replacement of riveted flap seal on aluminum access seal. REF: A1-F18AC-SRM-210
8. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
9. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
10. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_
11. Discuss corrosion detection and prevention procedures. REF: NA

**J. SUMMARY:** During this period of instruction we covered miscellaneous type doors and panels including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components.

**K. QUESTION AND ANSWERS :**

**DRAFT**



A. **LECTURE NUMBER:** F/A-18 MOS 6257 B.20 (P thru S)

B. **TIME:** 1.5 Hours

C. **DATE PREPARED:** 31 Aug 03

D. **DATE REVIEWED:** On separate sheet

**DRAFT**

E. **TITLE:** Organizational Level Maintenance  
(Miscellaneous Areas)

F. **OBJECTIVE:** Student will be able to demonstrate knowledge of miscellaneous areas including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components. Students will also be able to comply with all 3M, Tool Control, FOD, and Corrosion Control procedures as they pertain to each task.

G. **INSTRUCTIONAL AIDES:** F/A 18 Aircraft

H. **REFERENCES:**

1. A1-F18AC-270-300, Organizational Maintenance with IPB
2. A1-F18AC-742-300, Organizational Maintenance with IPB
3. A1-F18AC-750-300, Organizational Maintenance with IPB
3. A1-F18AC-LMM-000, Organizational Maintenance Line Maintenance Procedures
4. A1-F18AX-WUC-800, Work Unit Code Manual
5. OPNAVINST 4790.2\_, Naval Aviation Maintenance Program
6. NA 01-1A-509, Aircraft Weapons Systems Cleaning and Corrosion Manual

I. **PRESENTATION:**

**NOTE:** Stress all WARNINGS, CAUTIONS and NOTES throughout out the presentation.

1. Discuss removal and replacement of air inlet seal for the GE-F404-400/402 engine. REF: A1-F18AC-270-300
2. Discuss removal and replacement of ramp bleed air door for the air inlet control system. REF: A1-F18AC-270-300
3. Discuss removal and replacement support assembly slide for the airborne radar system. REF: A1-F18AC-742-300
4. Discuss removal and replacement of gun bay scavenge door for the gun system. REF: A1-F18AC-750-300
5. Discuss appropriate 3M documentation procedures. REF: OPNAVINST 4790.2\_ and A1-F18AX-WUC-800
6. Discuss Tool Control procedures. REF: OPNAVINST 4790.2\_
7. Discuss FOD prevention guidelines. REF: OPNAVINST 4790.2\_

8. Discuss corrosion detection and prevention procedures. REF:  
NA

J. **SUMMARY:** During this period of instruction we covered miscellaneous areas including the removal, installation, adjustment, alignment, repair, and/or replacement of associated components.

K. **QUESTION AND ANSWERS :**

**DRAFT**