PART 3

ACCESSORY DESCRIPTION

1-35. GENERAL.

1-36. The following paragraphs contain general and descriptive information for the non-munition accessories that can be installed on F-4C/D/E AND RF-4C AIRCRAFT. Physical characteristics such as weight, length, height or diameter are provided for each accessory.

1-37. ELECTRONIC COUNTERMEASURES (ECM) PODS.

1-38. Electronic countermeasures pods are designed to enable fighter aircraft to penetrate enemy radar controlled air defense systems and perform their mission of strike, reconnaissance, or air intercept. The enemy air defense system consists of AAA, SAM, and fighter aircraft. Electronic jamming provided by pods denies the enemy control systems and data necessary for them to function. Specific threat jamming capabilities are determined by pre-mission pod selection, ground crew adjustments, selectable modes of operation, and pod configuration. The pods are attached to a bomb rack or adapter by suspension lugs spaced 14 or 30 inches apart, depending on which pod is utilized.

1-39. DIFFERENCE BETWEEN PODS. See figure 1-4.

a. AN/ALQ-71 Pod. These pods are designed to deny information to certain radar controlling air defense weapons. The system contains a self contained power source. Aircraft have been equipped to supply internal aircraft power to the pods.

b. Deleted.

c. AN/ALQ-72 Pod. These pods are designed to deny range information to airborne I - band radars. The pod is furnished power by a self contained ram air turbine (RAT). Aircraft have been equipped to supply 28Vdc power to the pod for controlling and monitoring.

The pod contains one receiver and one transmitter. Operation may be manual or automatic, depending upon the position of the pod mode switch; ACTIVE or NORMAL. The pod will jam continuously in the ACTIVE mode. When the pod is in NORMAL, the receiver can detect and analyze a threat signal and tunes the transmitter to a specific frequency.

d. AN/ALQ-87 Pod. The AN/ALQ-87 ECM pod is designed to operate against specific band radars. The pod is furnished power by a self contained RAT. Aircraft have been equipped to supply 28Vdc power to the pod for controlling and monitoring.

The pod contains multiple combinations for manual or automatic operation. Four modes of operation are available against various counters. The selection for mode of operation is performed by the ground crew before flight.

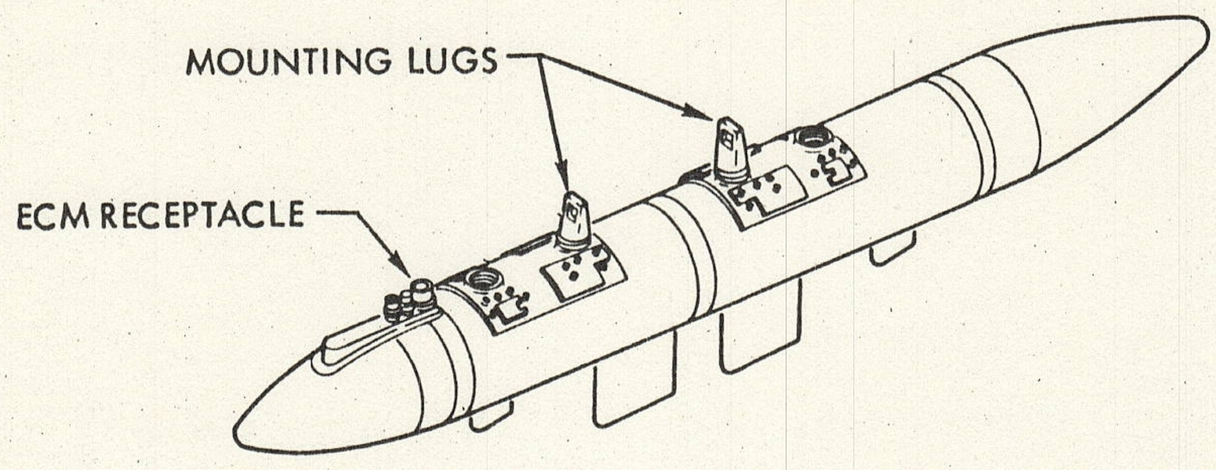
e. AN/ALQ-101(V), AN/ALQ-101(V)-6 Pod. The AN/ALQ-101(V), AN/ALQ-101(V)-6 ECM pod is designed to counter air defense weapons radar operating in certain bands. The pod also has the capability to cause premature functioning of some air defense weapons. The pod is furnished power by a self contained RAT. Aircraft have been equipped to supply 28Vdc to the pod for controlling and monitoring.

The pod is operated by the aircrew in either automatic or manual mode. There are four frequency bands to counter air defense weapon fuzes and radar.

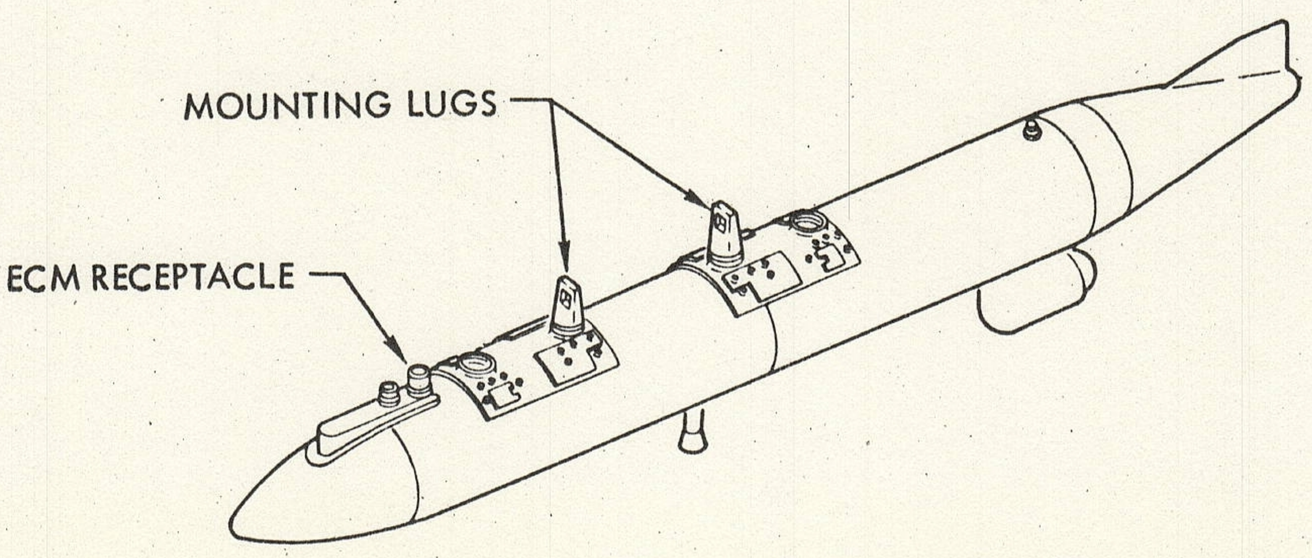
f. AN/ALQ-101(V)-8 Pod. The AN/ALQ-101(V)-8 pod is an electronic countermeasures pod designed to be carried externally on aircraft. Each AN/ALQ-101(V)-8 pod (long configured), can be adapted into two configurations for specific tactical mission requirements.

g. AN/ALQ-101(V)-9 Pod. The AN/ALQ-101(V)-9 pod is an electronic countermeasures pod designed to be carried externally on aircraft. Each AN/ALQ-101(V)-9 pod (long configured) can be adapted into three configurations for specific tactical mission requirements.

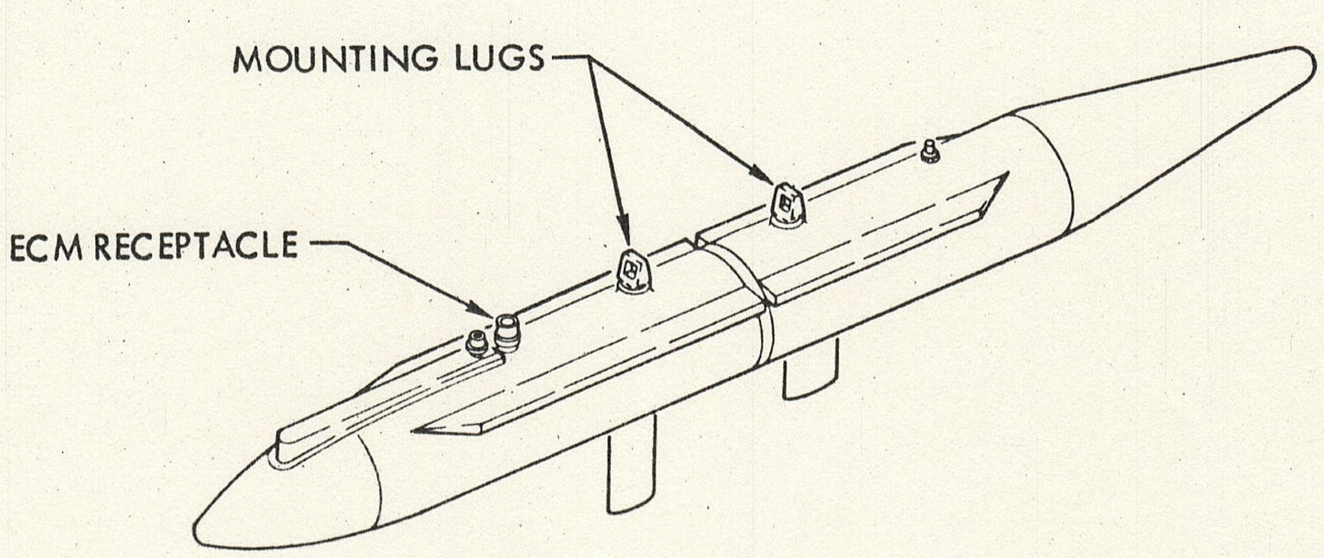
All data on pages 1-6 thru 1-6B deleted.



AN/ALQ-71



AN/ALQ-72



AN/ALQ-87

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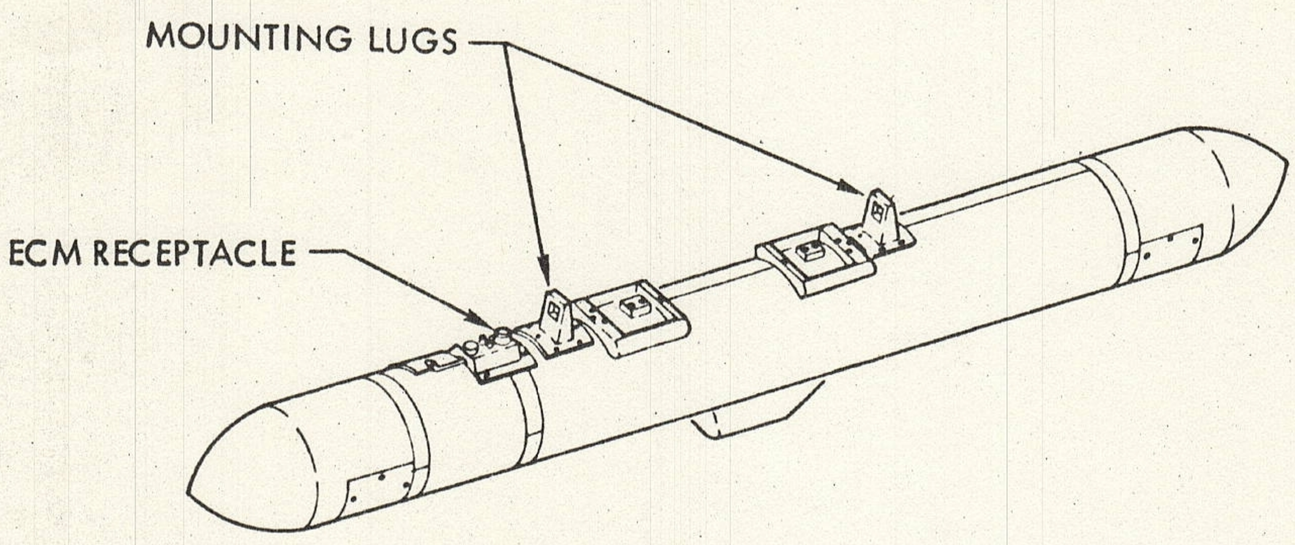
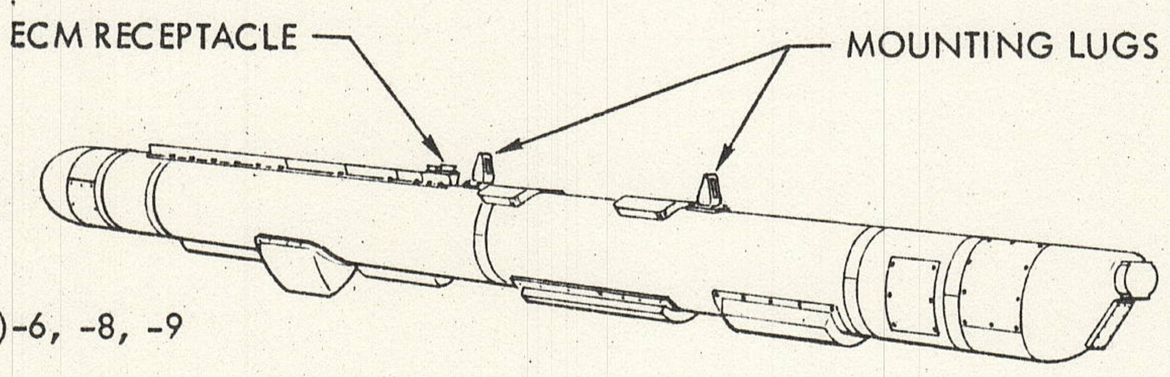
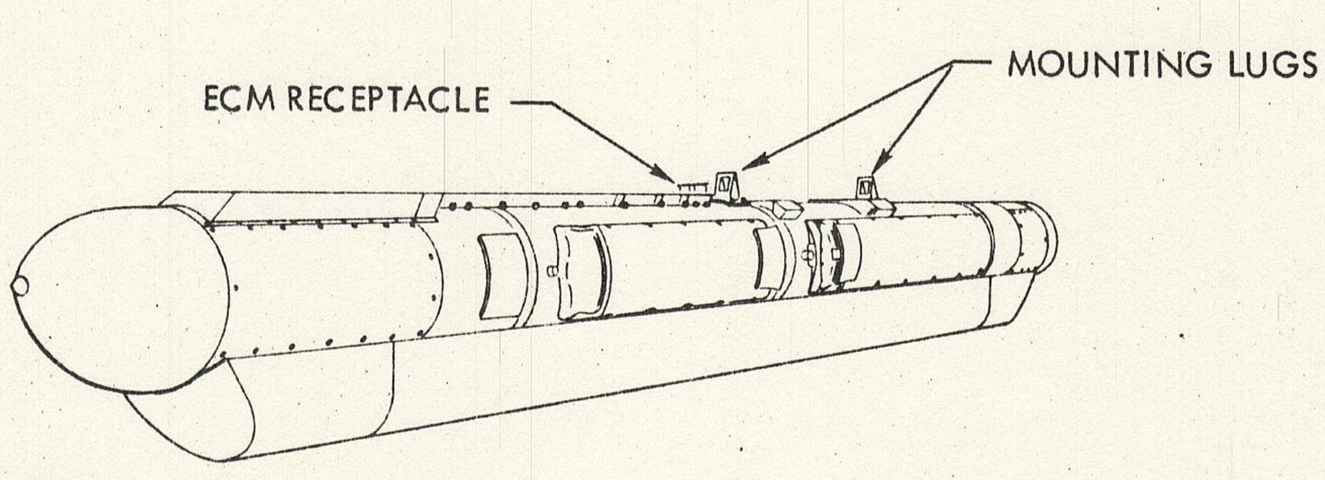
Figure 1-4. ECM Pods (Sheet 1 of 2)



AN/ALQ-101(V)



AN/ALQ-101(V)-6, -8, -9



AN/ALQ-119(V)
(TYPICAL)

4C-35-(108-2)B

Figure 1-4. ECM Pods (Sheet 2 of 2)

1-40. PHYSICAL CHARACTERISTICS (APPROXIMATE).

	Weight	Length	Diameter
AN/ALQ-71	200 pounds	91.37 in.	10 in.
AN/ALQ-72	200 pounds	99 in.	10 in.
AN/ALQ-87	300 pounds	107 in.	10.5 in.
AN/ALQ-101(V)	240 pounds	100 in.	10 in.
AN/ALQ-101(V)-6	393 pounds	156 in.	10 in.
AN/ALQ-101(V)-8	540 pounds	151 in.	10 in.
AN/ALQ-101(V)-9	320 pounds	112 in.	10 in.
AN/ALQ-119(V)-4, -7, -10, -12	565 pounds	154 in.	10 in.
AN/ALQ-119(V)-5, -8	307 pounds	104 in.	10 in.
AN/ALQ-119(V)-6, -9, -11, -14	392 pounds	114 in.	10 in.

1-41. GUIDED WEAPON MONITOR CONTROL SET AN/AWG-16.

1-42. The data pod (Guided Weapon Monitor - Control Set) (see figure 1-5) provides a two-way data link between the launch aircraft and the (WALLEYE) weapon after the weapon is launched from the aircraft. The data pod consists of a transmitter, electronic package, receiver, and an antenna system capable of transmitting (command) or receiving (video) signals. Special test equipment, such as the AN/DSM-94 and AN/AWM-59 test sets (see figure 1-1) and related ground support equipment, such as handling equipment and containers, will be used in conjunction with the data pod. The pod is attached to the bomb rack by suspension lugs spaced 14 inches apart.

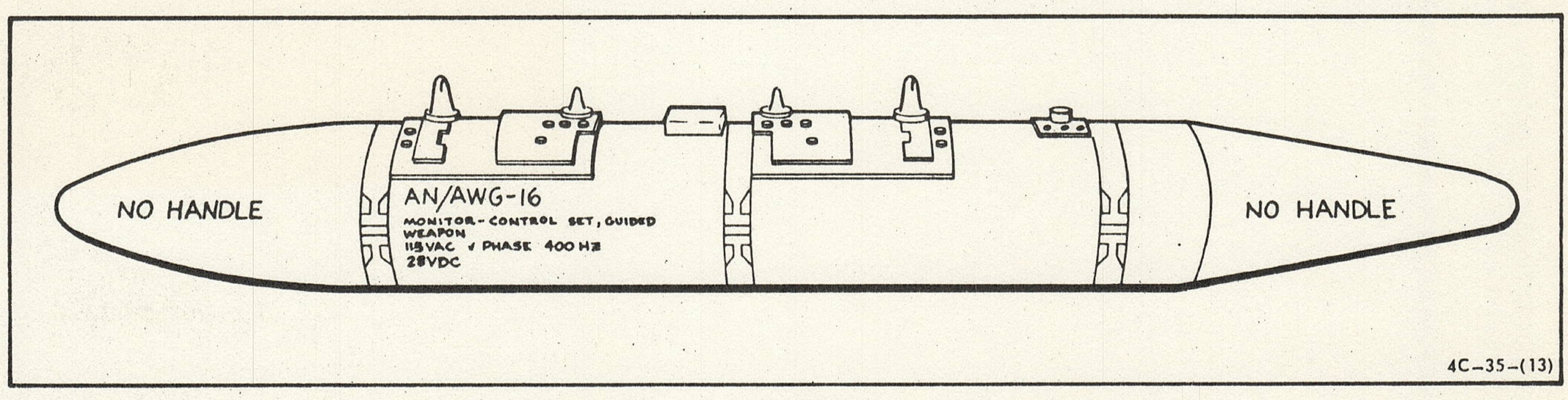


Figure 1-5. AN/AWG-16 Guided Weapon Monitor Control Set

1-43. PHYSICAL CHARACTERISTICS (APPROXIMATE).

a. Weight: 168 pounds (Loaded)

b. Length: 91.87 inches

c. Diameter: 10 inches