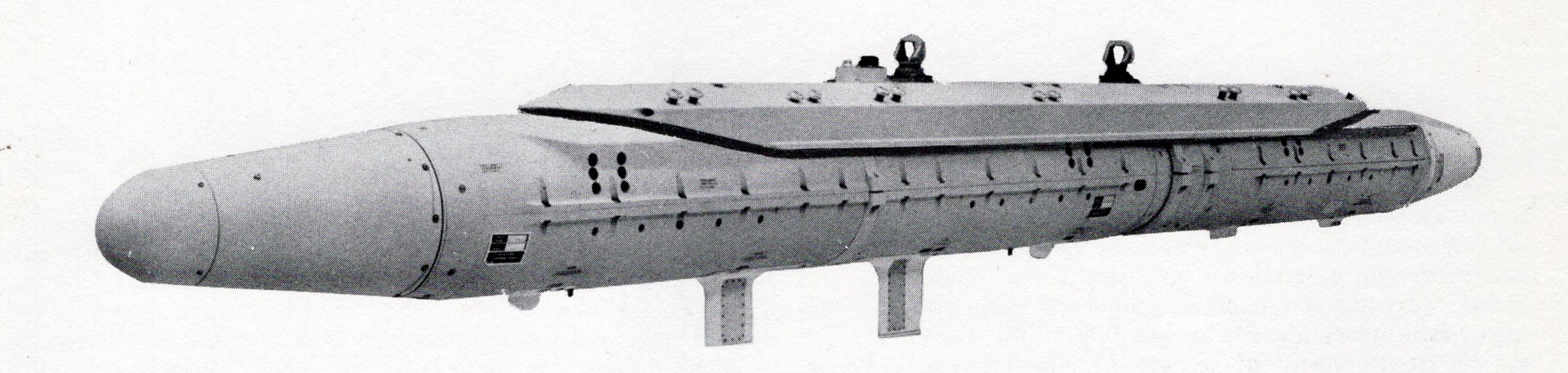
AN/ALQ-87 (V) VERSATILE PYLON MOUNTING HARDWARE



The AN/ALQ-87, currently an operational and proven ECM pod system, has inherent design features that may be utilized in 380 different configurations by the employment of versatile mounting hardware.

The mini-back provides an interface between any of the inventoried canisters and 14-inch mounting brackets. The pylon adapter interfaces between either three or four canisters,

together with their low voltage power supplies and primary power adapter, and any standard 14-inch or 30-inch pylon mounting bracket.

The use of the adapter increases the effectiveness of the AN/ALQ-87 system by permitting additional ECM capabilities to be combined into one pod.

PREPARED FOR:

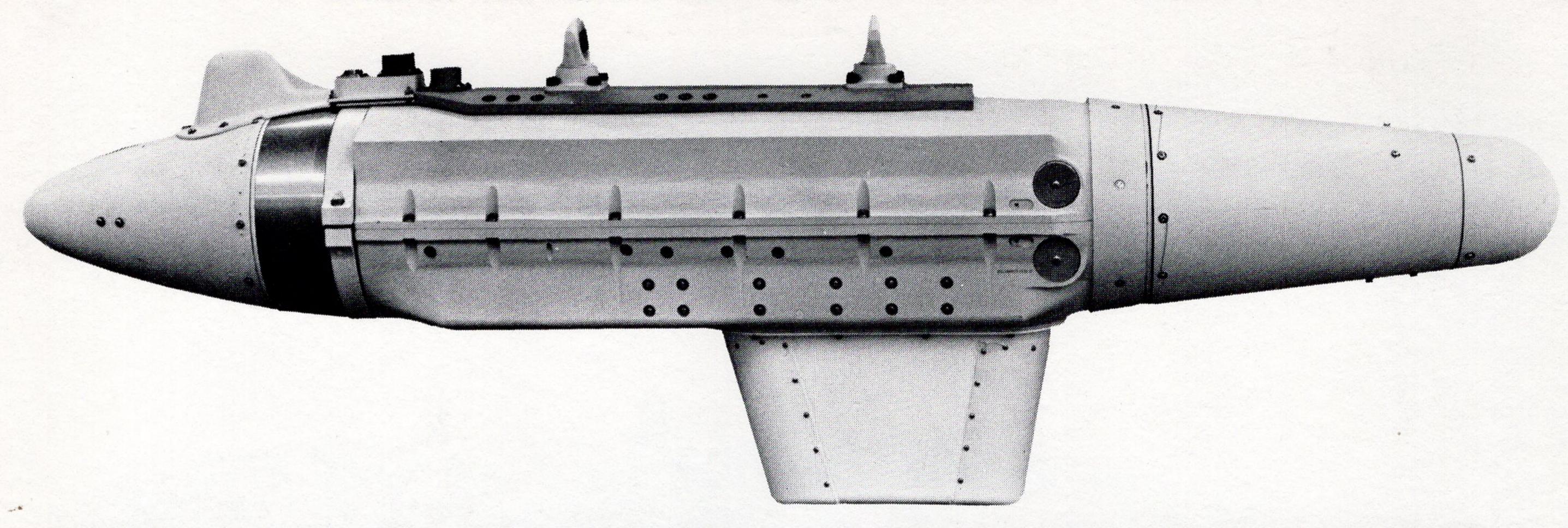
United States Air Force Warner Robins Air Material Area Warner Robins, Georgia PREPARED BY:

General Electric Company Aerospace Electronic Systems Department Utica, New York

AIRCRAFT EQUIPMENT DIVISION UTICA, NEW YORK 13503



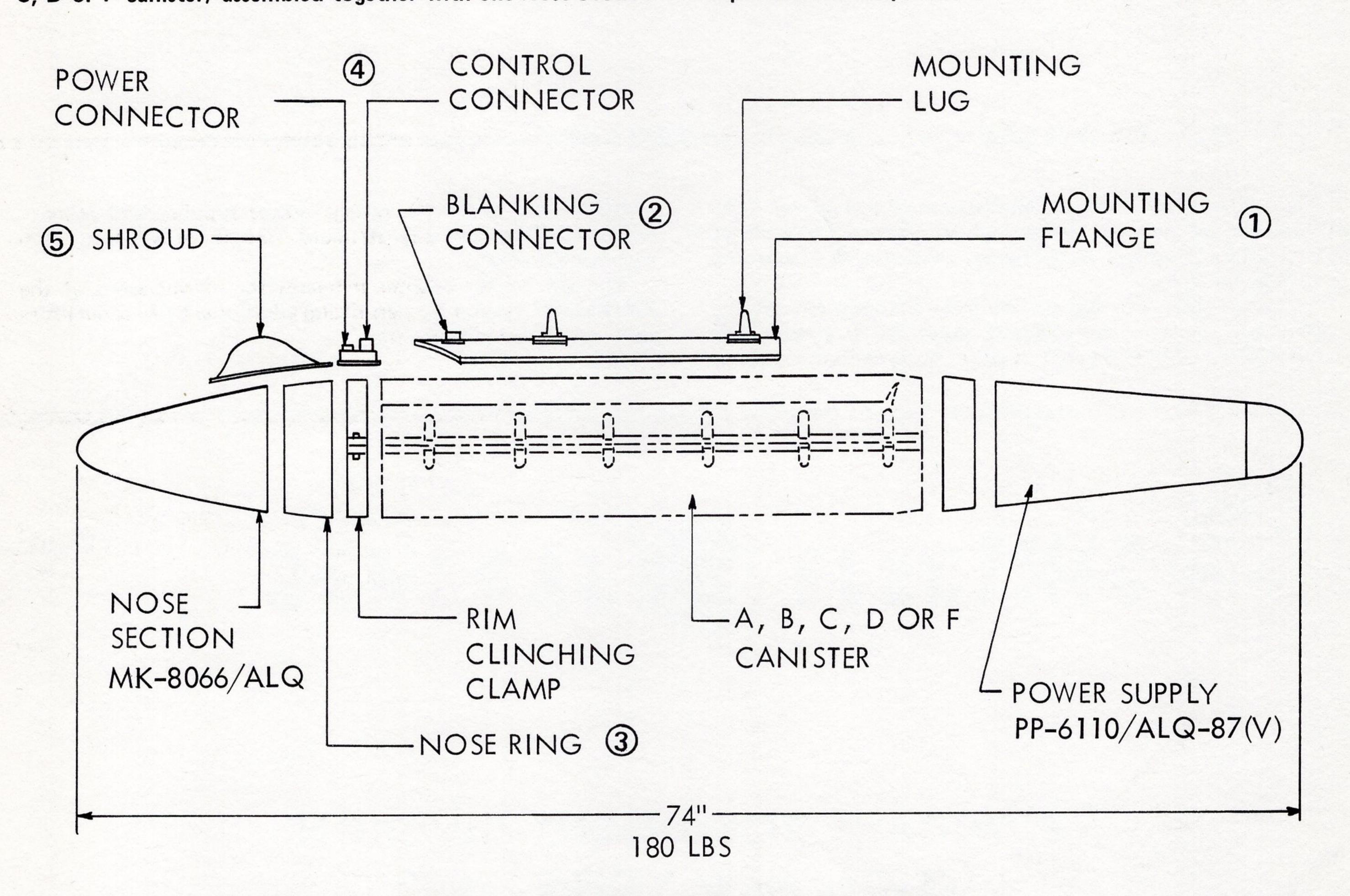
MINI-BACK ADAPTER HARDWARE



The mini-back hardware concept is being proposed as an improvement to the AN/ALQ-87 system. A simple hardware kit can provide a small, versatile and effective ECM system of proven design, suitable for specialized ECM installations on various operational aircraft ranging from helicopters to such high performance aircraft as the F-4, F-105 and F-111. The system would consist of one AN/ALQ-87 Transmitter (A, B, C, D or F canister) assembled together with one Nose Section

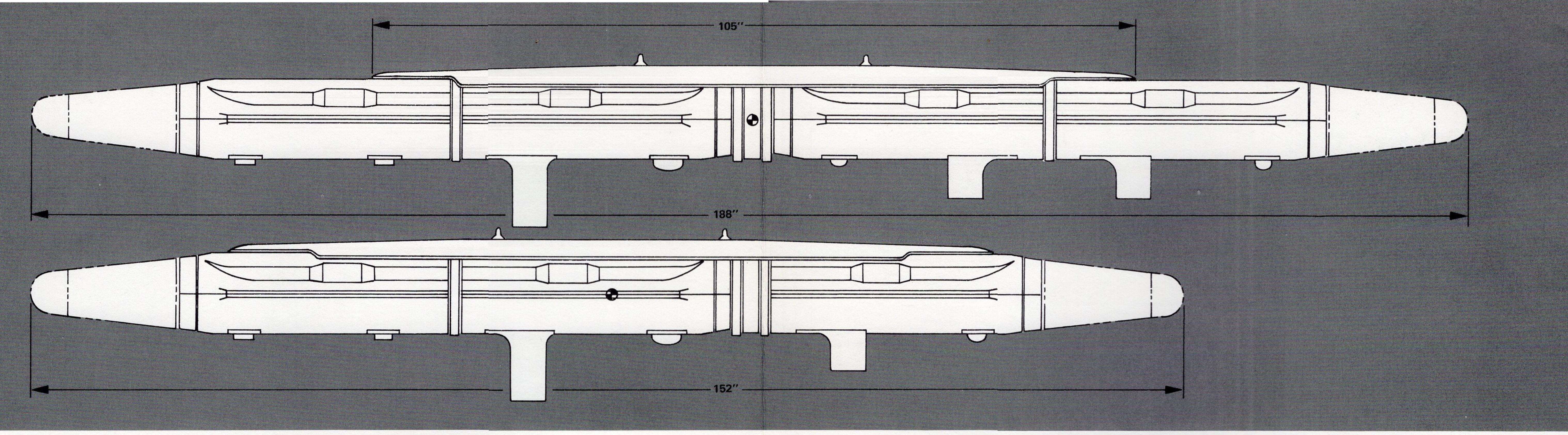
Assembly Mk 8066/ALQ and an ALQ-87 Tail Section.

The hardware kit is designed to permit the installation of the pod on standard 14-inch spaced pylon hooks and will also be compatible with the rear centerline ECM position of the F-111. By virtue of its reduced size (74 inches long), weight (180 pounds), and input power, such a system would provide many advantages for use where special, missionized ECM capabilities are required.

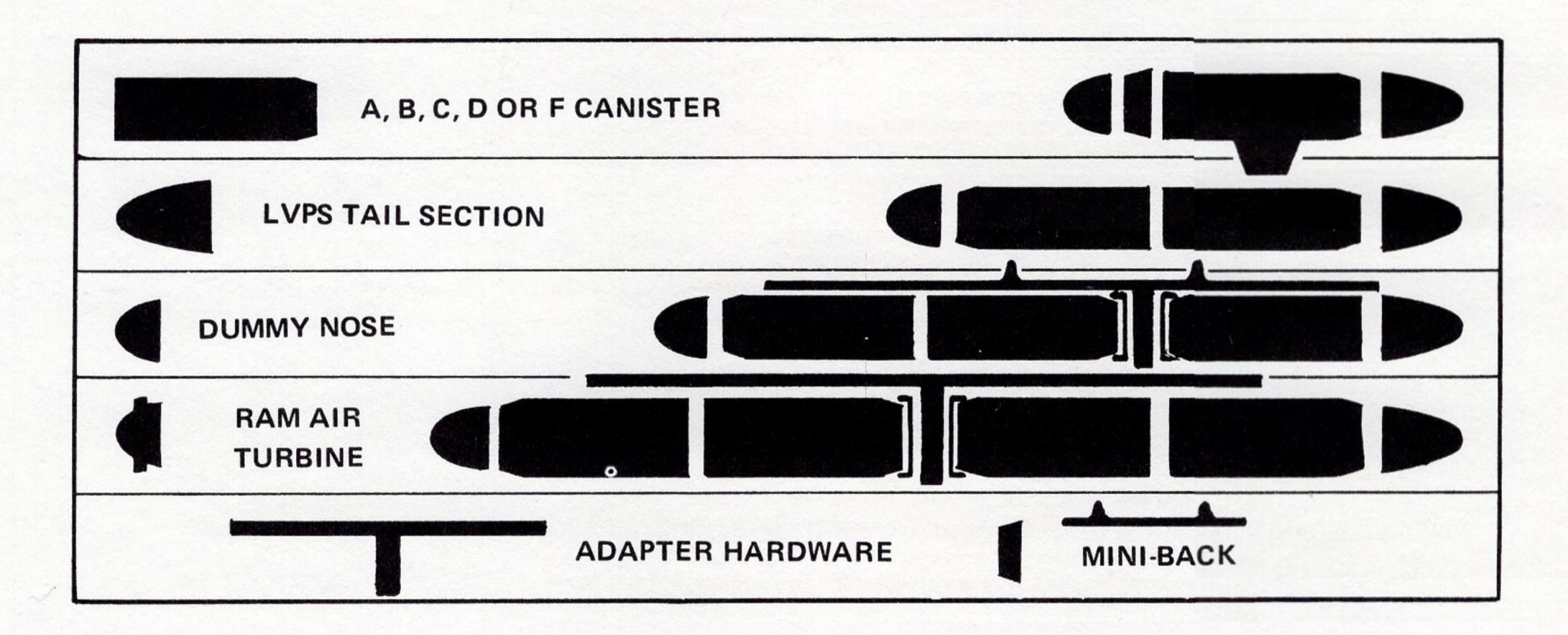


KIT DESCRIPTION

- 1. MOUNTING FLANGE/PLATE
- 2. BLANKING CONNECTOR ASSEMBLY
- 3. NOSE RING
- 4. POWER/CONTROL CONNECTOR ASSEMBLY
- 5. SHROUD
- 6. CABLES



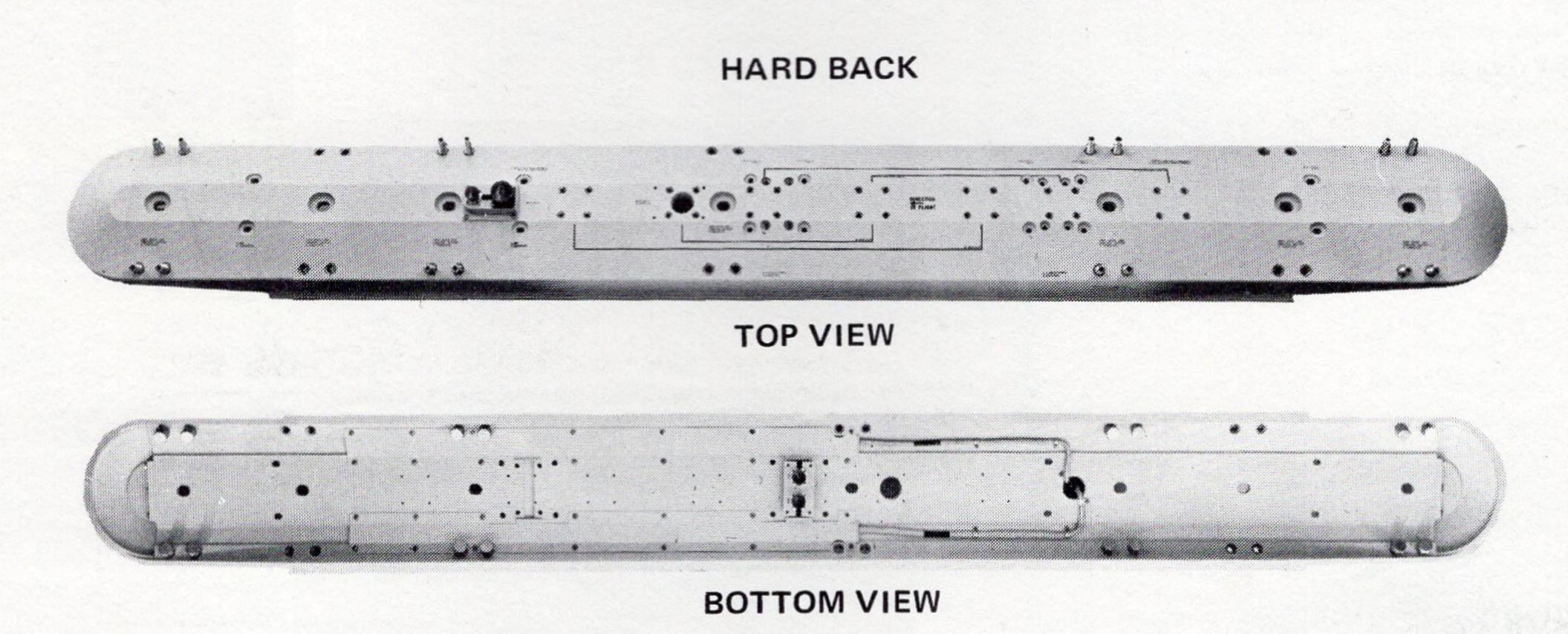
AN/ALQ-87 (V) TYPICAL CONFIGURATIONS

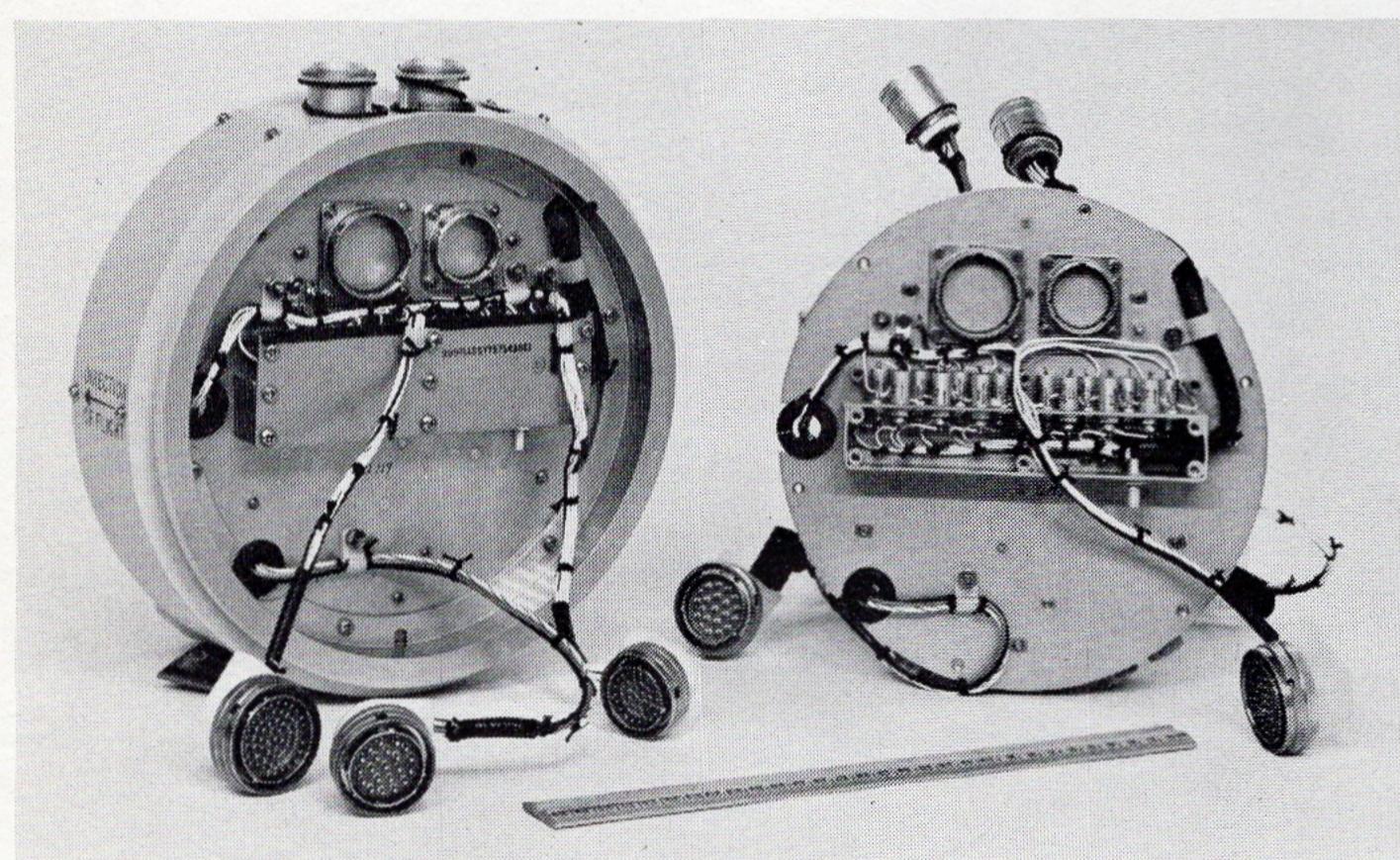


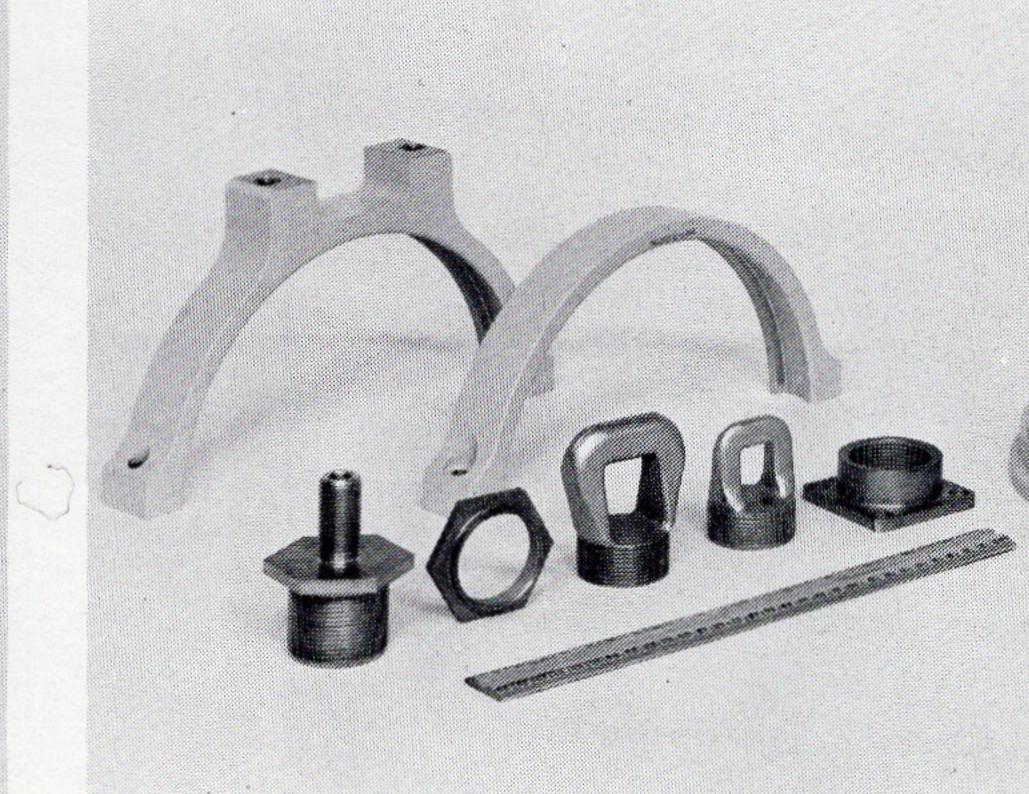
TWENTY TYPICAL CONFIGURATIONS

CONFIGURATION	STRUCTURE	NOSE	CANISTER				R			
			A	В	С	D	F	TAIL	LENGTH	WEIGHT
	MINI-BACK	1	1					1		
2				1				1		
3					1			1		
4						1		1	74"	180
5							1	1		
6	2 CANISTER									
	(SELF SUPPORT)	1	1	1				1	110"	300
7		1	1		1			1		
8		1	1			1		1		
9		1	1				1	1		
10		1		1	1			1		
11		1		1		1		1		
12		1		1			1	1		
13	3 CANISTER									
	HARD BACK	1	1	1			1	1	152"	525
14			1	1	1			2		
15			1	1		1		2		
16		1	1		1		1	1		
17	4 CANISTER									
	HARD BACK		1	1	1		1	2	190"	640
18			2	1			1	2		
19			1	2			1	2		
20			2	2				2		

AN/ALQ-87 MULTICANISTER PYLON ADAPTER HARDWARE







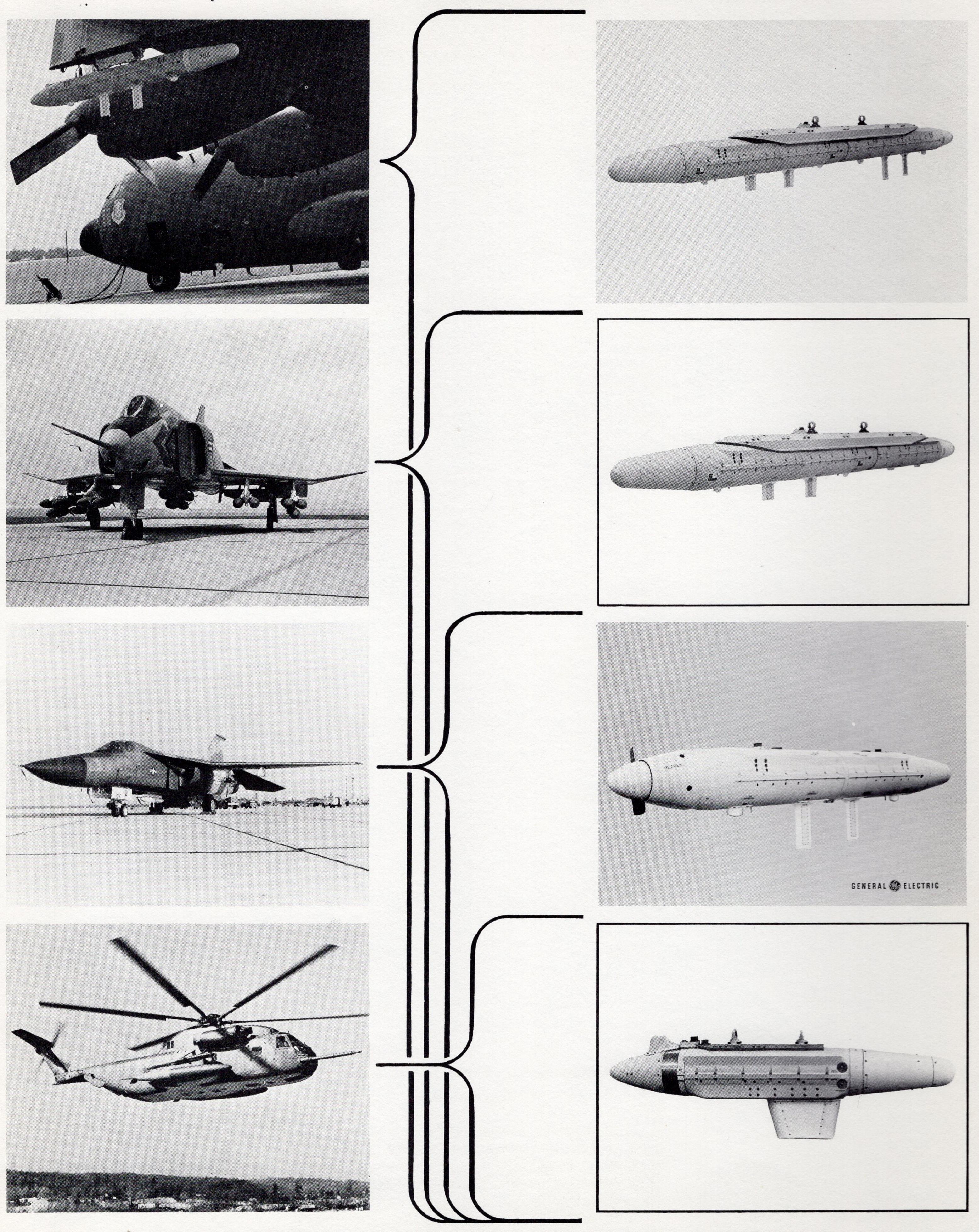
PRIMARY POWER ADAPTER

MOUNTING HARDWARE

The three or four canister pylon adapter, shown above, is an and four canister configurations with either 14-inch or 30-inch inertial loads, and structural strength have been completed and section of the adapter to the primary power adapter. indicate a positive margin of safety for the hardback in three

aluminum alloy structure weighing 125 pounds and is 105 lug mounts. Three phase, 400 Hz power from the aircraft is inches in length. Structural analysis covering flight loads, routed from the aircraft mating connector through a grooved

AN/ALQ-87 SYSTEMS CONFIGURATIONS



A VERSATILE, ADAPTIVE, MODULAR SYSTEM

