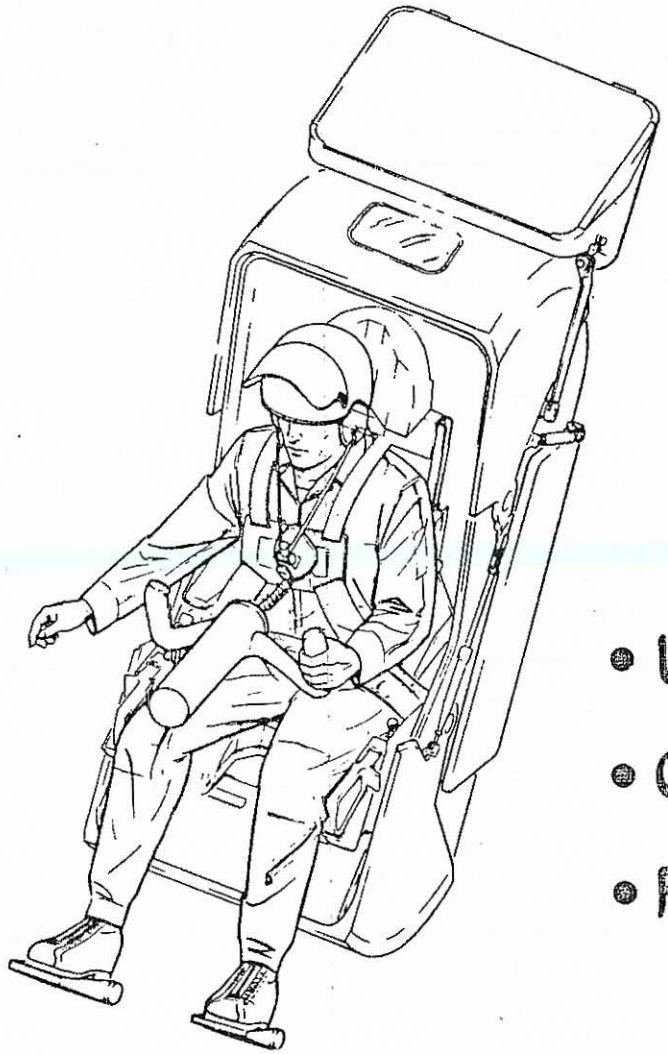
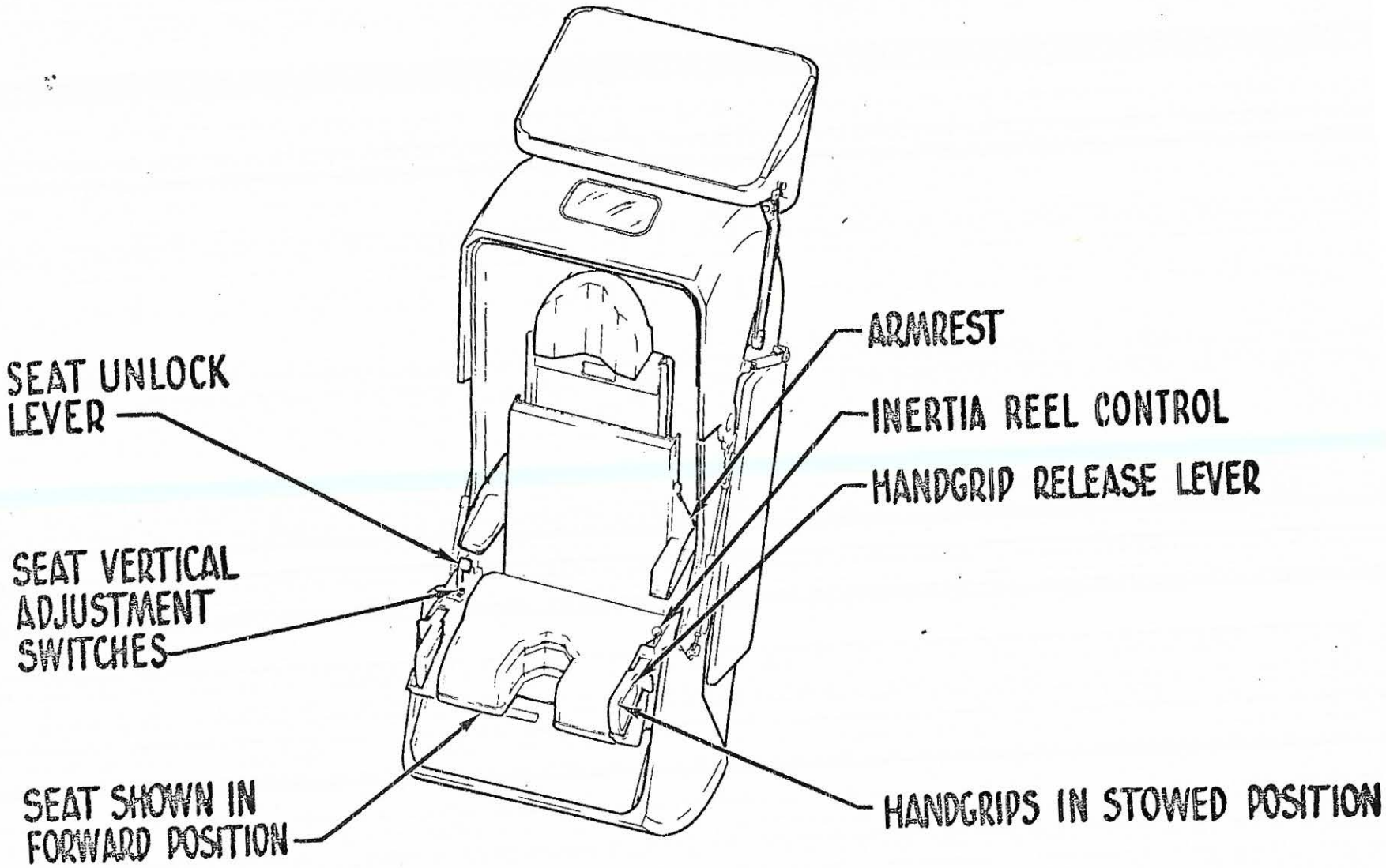
AIRCREW SEATING FACILITIES
GENERAL CONFIGURATION



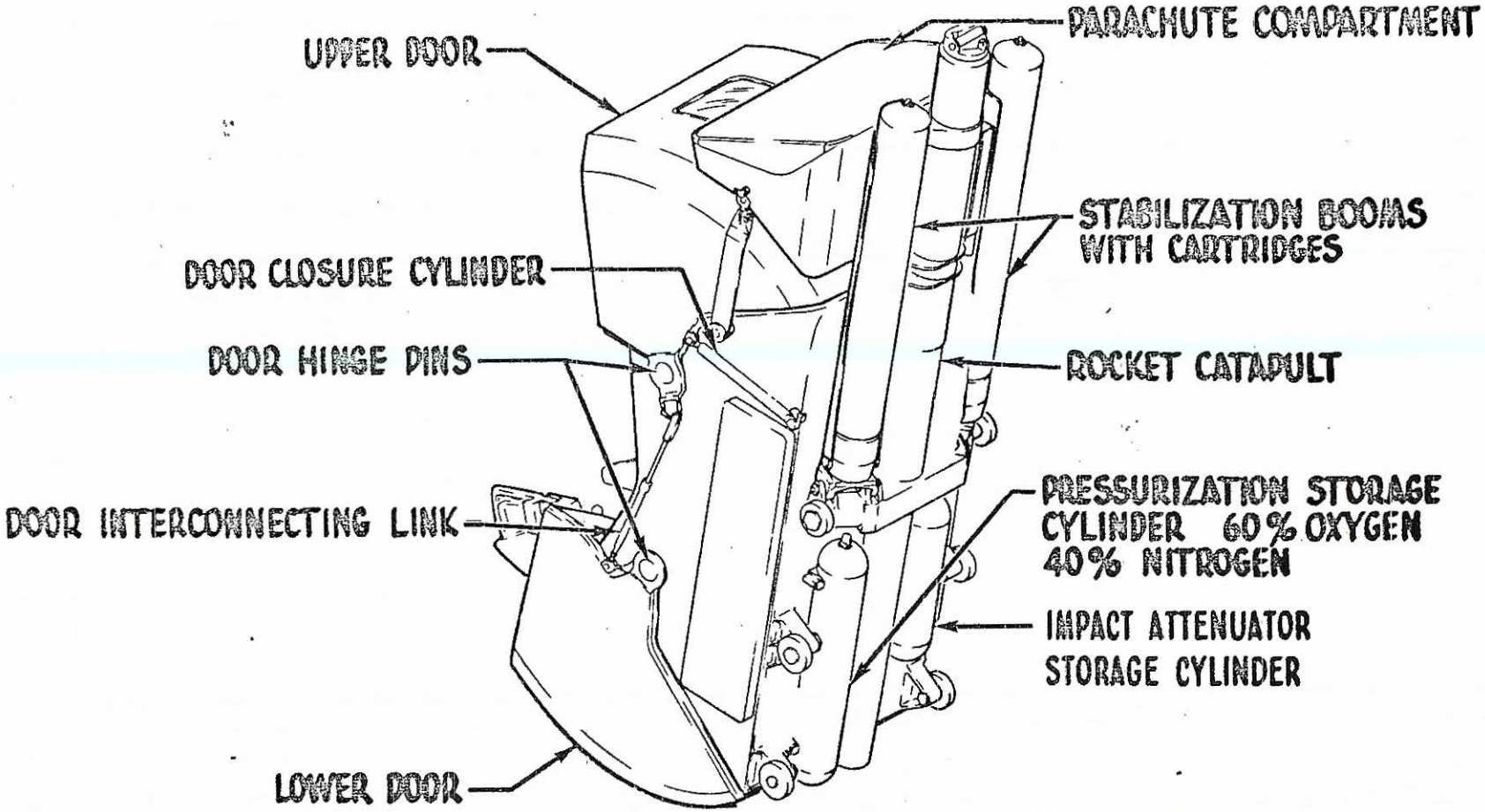
- UNRESTRICTED VISION
- COMPLETE CONSOLE ACCESS
- FREE MOBILITY

WSS-22-6985 B

ENCAPSULATED SEAT ARRANGEMENT
FRONT OF CAPSULE

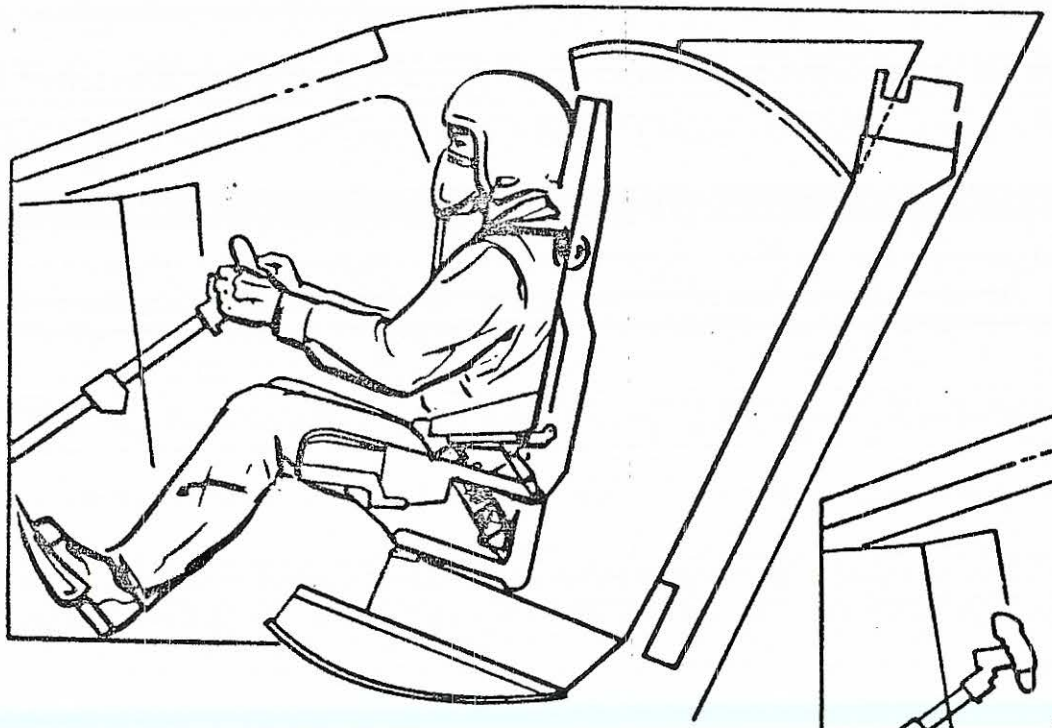


ENCAPSULATED SEAT ARRANGEMENT
REAR OF CAPSULE

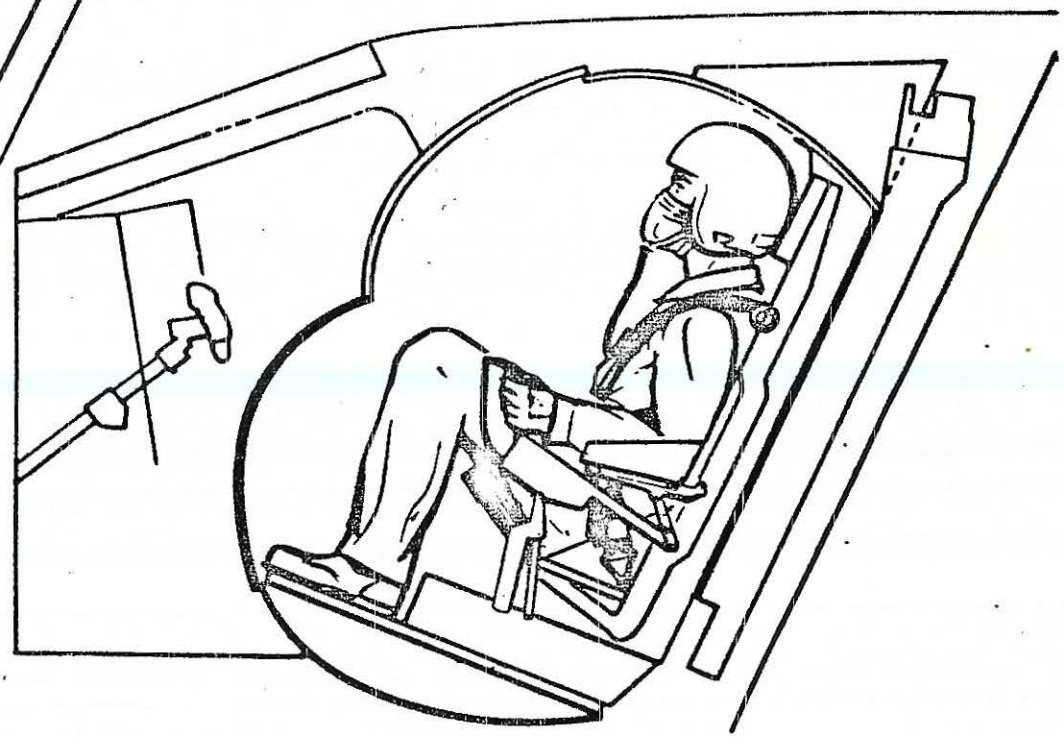


NORTH AMERICAN AVIATION, INC.
WSS-22-6986 C

SEAT OPERATION



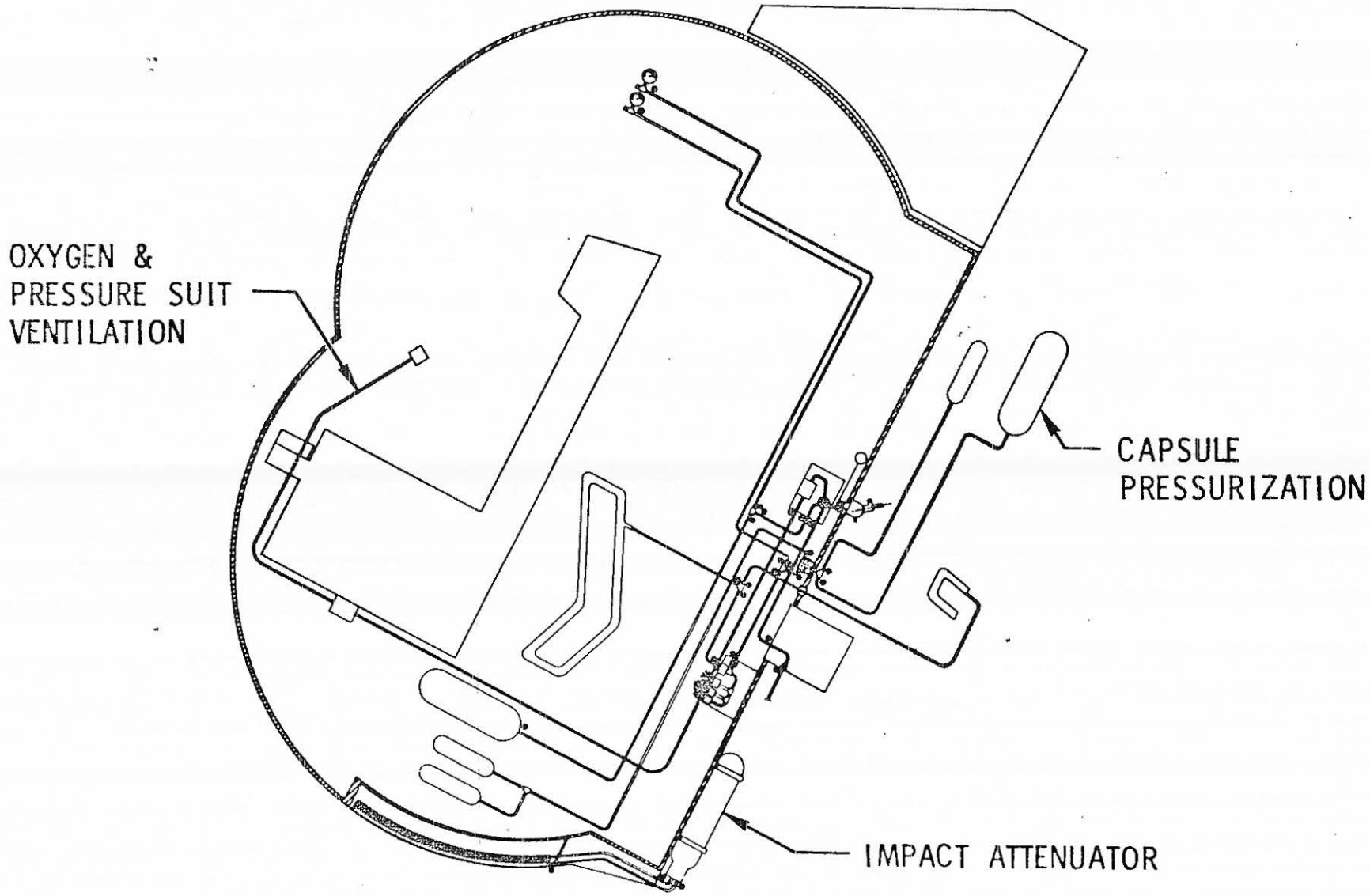
NORMAL FLIGHT POSITION



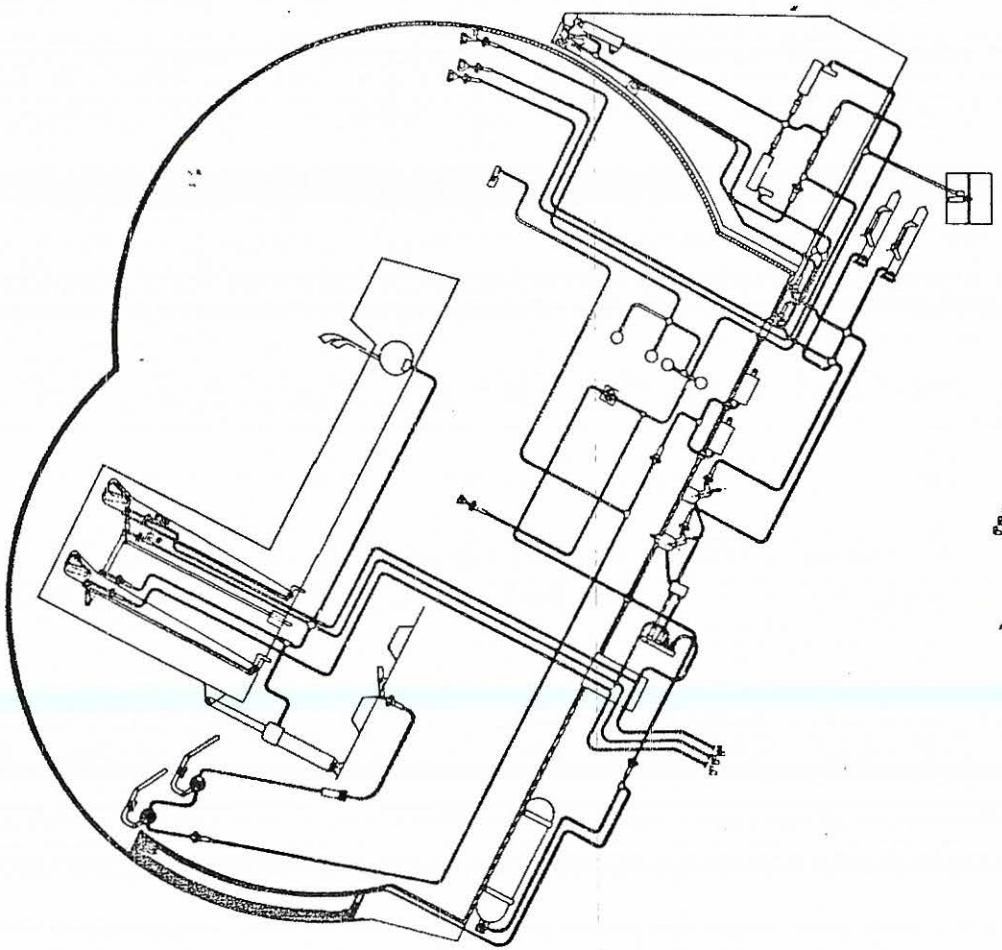
RETRACTED EJECTION POSITION

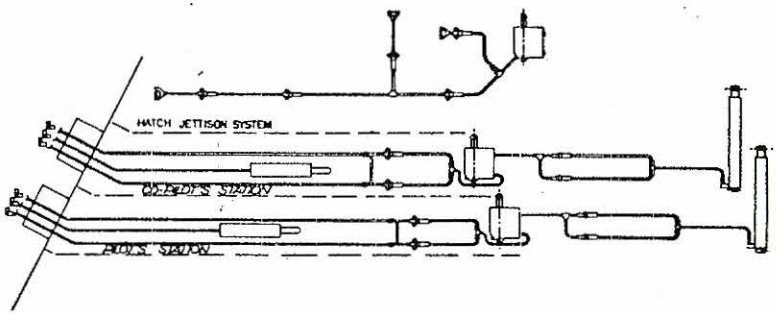
TSP66-5414

PNEUMATIC SYSTEMS



BALLISTIC SYSTEM

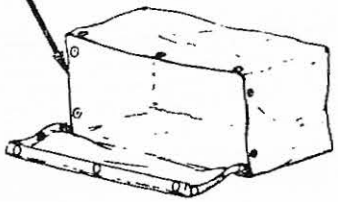


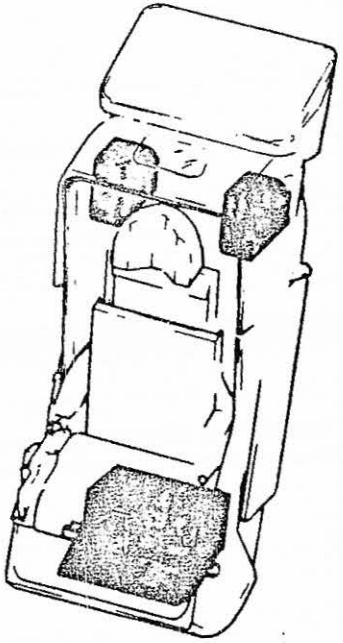


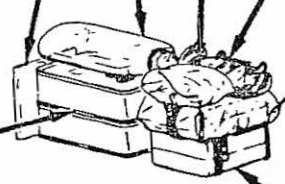
TSP66-5266

SURVIVAL EQUIPMENT

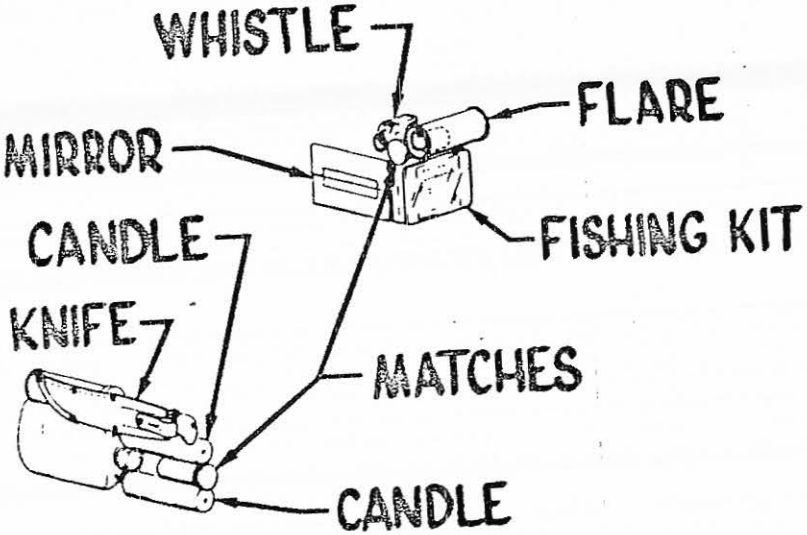
CLOTHING
(3.2 CLO MAX)

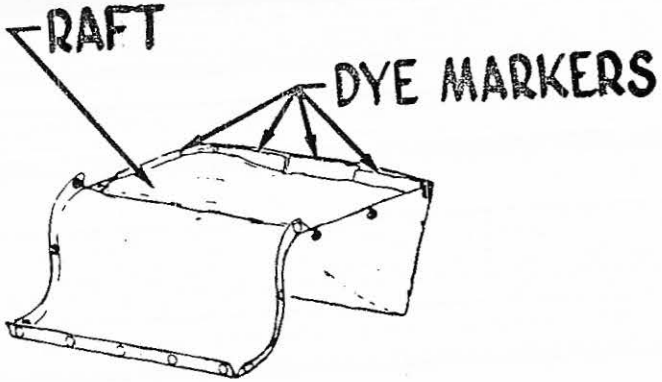






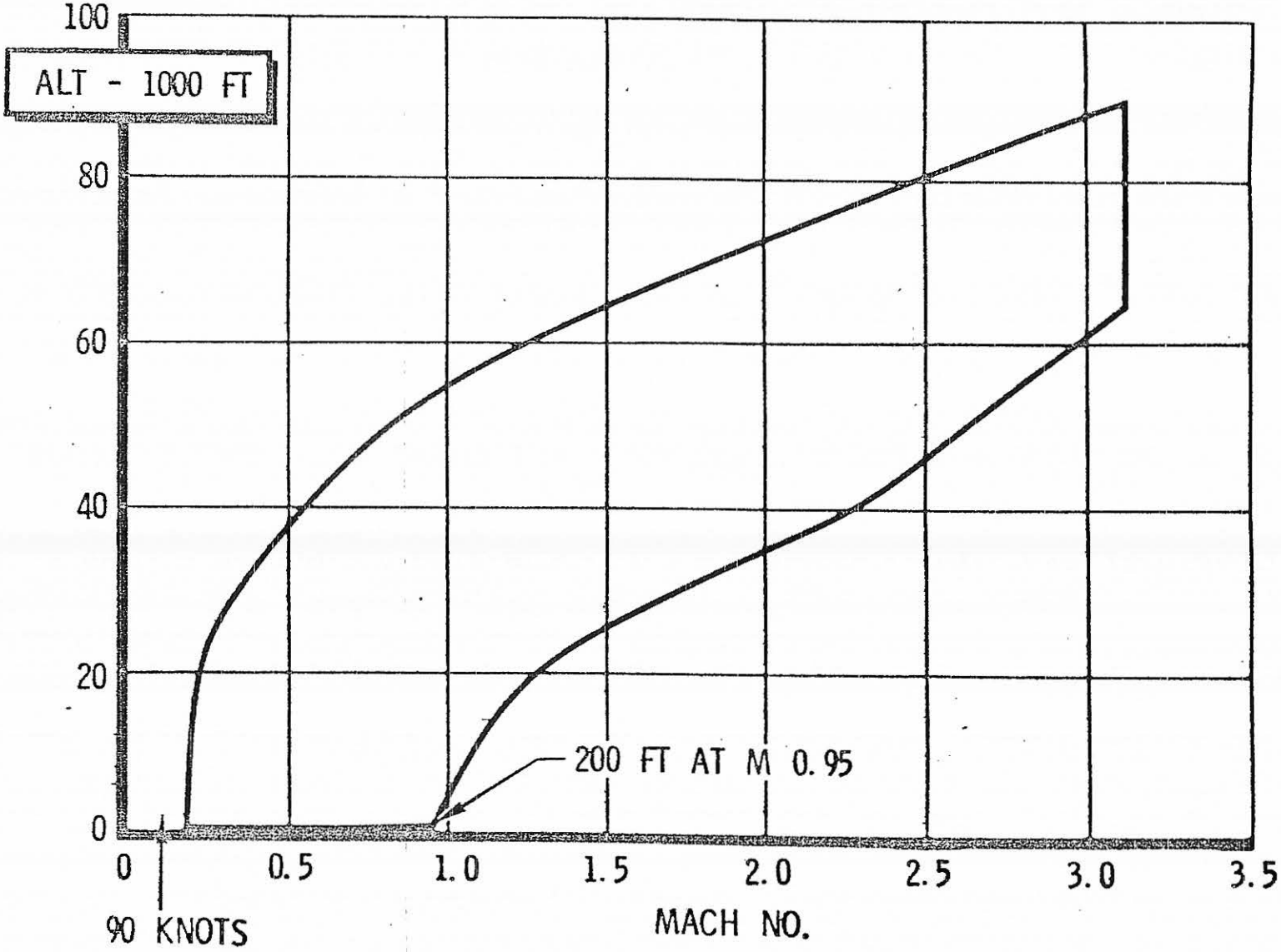
● 27 LB





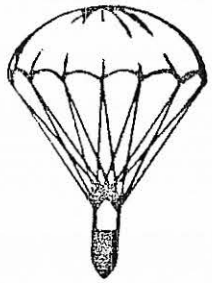
WSS-32-0299

ESCAPE ENVELOPE



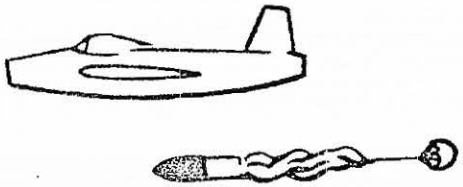
TSP66-5242

AERIAL TESTS

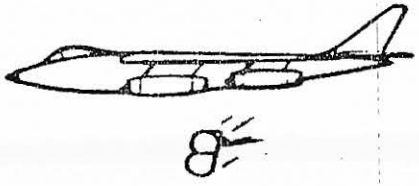


DUMMY WEIGHT

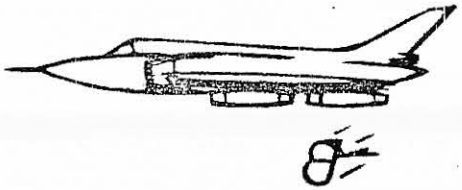
- RATE-OF-DESCENT TESTS
  24 SUCCESSFUL TESTS
- DEVELOPED ACCEPTABLE CAPSULE RATE-OF-DESCENT



- PARACHUTE STRUCTURAL TESTS
  28 TESTS
  2 FAILURES
- VERIFIED STRUCTURAL INTEGRITY OF PARACHUTE



- LOW & HIGH-ALT CAPSULE DROPS FROM C-130 & B-47
  17 TESTS
  1 FAILURE AT -89°F
- VERIFIED CAPSULE STABILITY & RECOVERY PARACHUTE PERFORMANCE

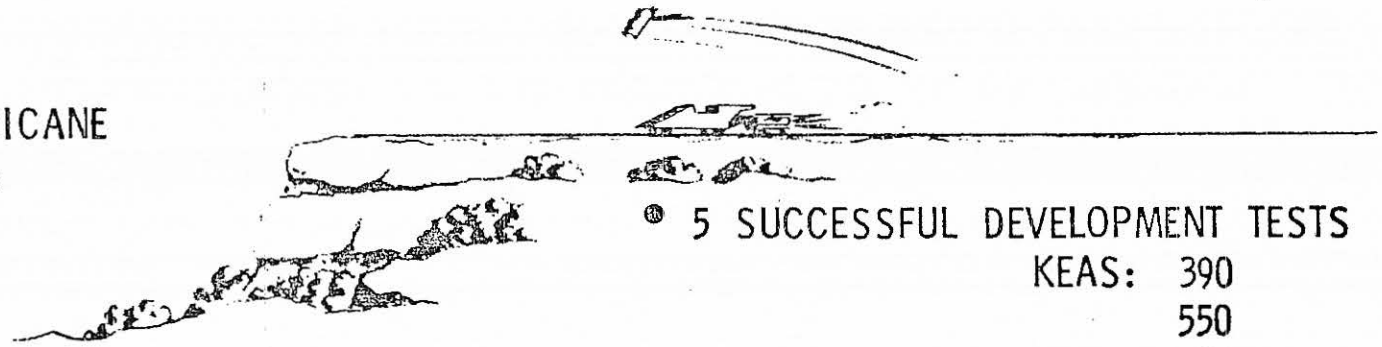


- EJECTIONS FROM B-58
  2 SUCCESSFUL TESTS
  M 0.8 AT 21,000 FT
  M 1.6 AT 38,000 FT
- VERIFIED HIGH MACH NO. PERFORMANCE

TSP66-5210 A

SLED TESTS

HURRICANE MESA



- 5 SUCCESSFUL DEVELOPMENT TESTS

KEAS:	390
	550
	550
	650
	650

- VERIFIED HIGH-q PERFORMANCE

EAFB

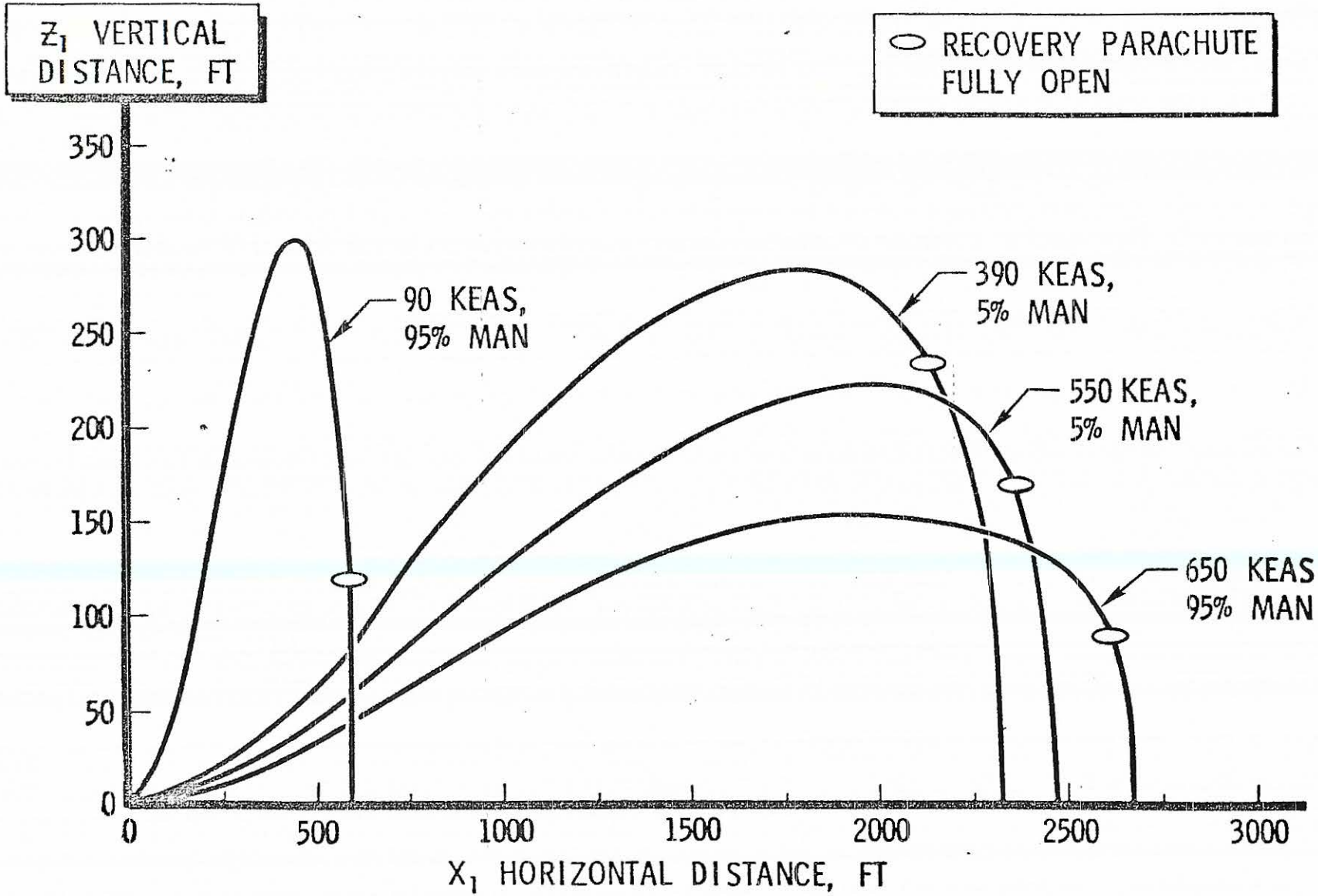
- 5 QUALIFICATION TESTS
  ONE FAILURE

KEAS:	90
	660
	660
	550
	640

- ONE 90 KEAS DEVELOPMENT TEST (SUCCESSFUL)
- VERIFIED INTEGRATION OF CAPSULE, CATAPULT & RECOVERY PARACHUTE
- VERIFIED INTEGRATED PERFORMANCE OF ALL SYSTEMS

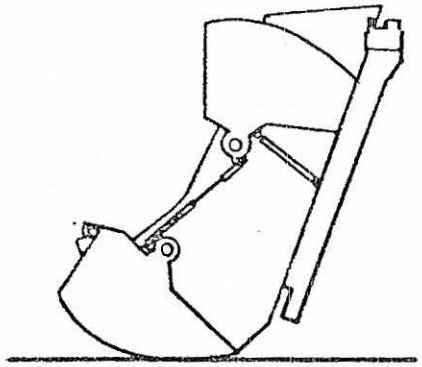
TSP66-5239 A

REPRESENTATIVE TRAJECTORIES

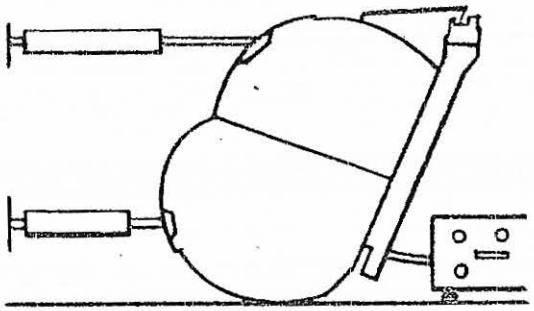


TSP66-5209

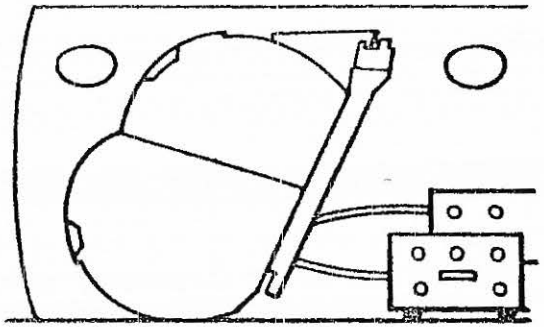
GROUND AND LABORATORY TESTS



CARTRIDGE BREADBOARD
AND OPERATIONAL CHECKS

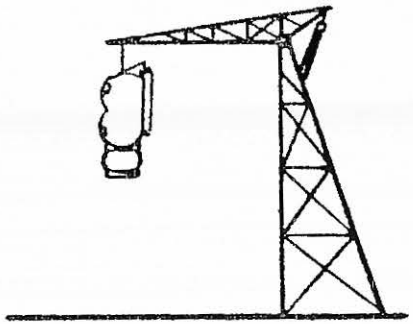


STATIC STRUCTURAL
TESTS

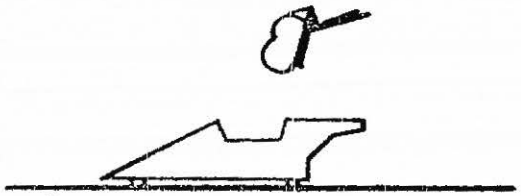


PRESSURE CHAMBER
DUMMY, SIMIAN, HUMAN
18 TESTS
MAX ALT 100,000 FT

FLOTATION
TESTS



IMPACT
DUMMY, HUMAN,
LAND, WATER
17 TESTS



EJECTION FROM
CABIN SECTION
ONE TEST

TSP66-5238

ADDITIONAL TESTS

• WIND TUNNEL	473 HOURS
• STABILIZATION BOOM FIRINGS	134 TESTS
• HARNESS REEL CARTRIDGE FIRINGS	91
• SEAT RETRACTION THRUSTER FIRINGS	44
• INITIATOR FIRINGS	1064
• IMPACT ATTENUATOR IMPACT TESTS	55
• CARTRIDGE DEVICE BREADBOARD TESTS	149